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The CHEMIST AND DRUGGIST

RETAILER — WHOLESALER — MANUFACTURER

JULY 9, 1949

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a safe and highly effective local antiseptic for **cuts, abrasions, burns, insect bites, stings** *etc.*

★ ATTRACTIVE SHOWCARDS SUPPLIED ON REQUEST

Retail Price: 1s. 9d. Tube of 1 oz.

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manufactured by **MAY & BAKER LTD** 48108

distributors

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM

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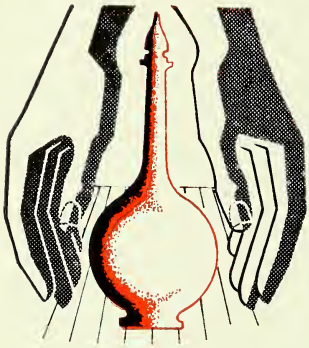
TO MANUFACTURERS OF ETHICAL PRODUCTS

Monsanto
PHARMACEUTICAL



The three essentials of dependable pha maceuticals — quality, uniformity and pur — are guaranteed by the rigid control unde taken at our Plants. Monsanto pharmace ticals not only conform to B.P. standar but frequently surpass those standards by considerable margin.

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CRESANTOL 3
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CRESANTOL 15R
P.C.M.C. : P.C.M.X
PHENOLPHTHALEIN B.P.
LYSOL B.P.
VANILLIN B.P.

ASPIRGRAN
Physical Form : Granular

ACETYL SALICYLIC ACID B.P.
Physical Form : Crystals ; Powder

SALICYLIC ACID B.P.
Physical Form : Crystals ; Powder

SODIUM SALICYLATE B.P.
Physical Form: White Flakes; White Powd

METHYL SALICYLATE B.P.
Physical Form : Clear Colourless Liquid

Write to Sales Department for Bulletin "Chemicals for the Pharmaceutical Industry".

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VICTORIA STATION HOUSE, LONDON, S.V

the day your customer weighs 15 lbs.

When baby weighs 15 lbs., he is ready for Farex. This is the message mothers are now reading in all the principal women's magazines. Big Farex advertisements—the first to appear for this solidly established product—are going to stimulate still bigger Farex sales.

Remember that Farex contains not one but *three* cereals. It has added tonic minerals and vitamin D. It can be given literally any flavouring desired. And Farex needs no cooking —a feature that every busy mother appreciates.

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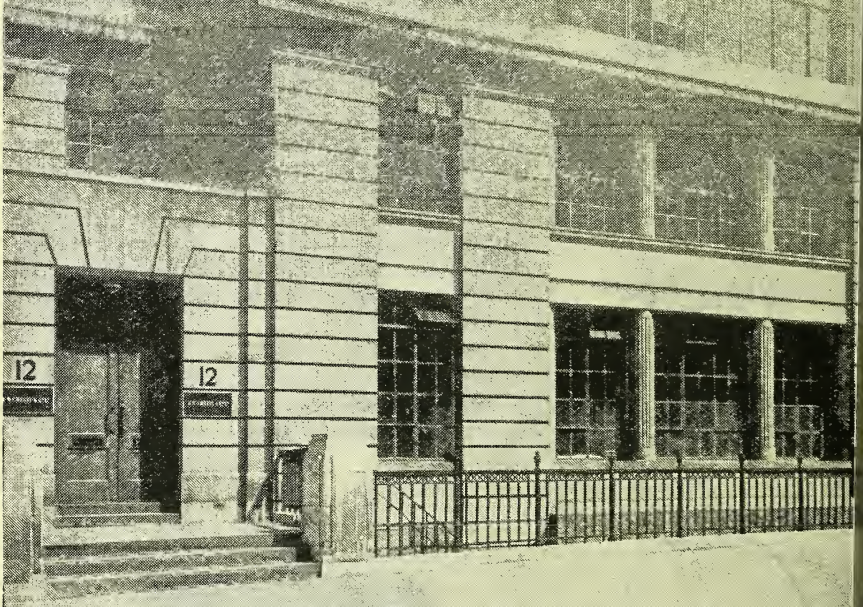

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Loughborough, Leicestershire

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WITH every 12 tubes of 'Vasano' Travel Sickness Remedy ordered direct or from your wholesaler, an additional tube is given FREE. This means that you can make 8¼d. profit on every tube of 'Vasano' you sell. Order now, and you will get this extra profit throughout the travel season when the demand for 'Vasano' naturally increases. 'Vasano' retails at 1/9d. per tube, each containing 10 tablets (plus 5d. Purchase Tax). Wholesale price: 14/- per doz. If you would like to know more about 'Vasano' and this free offer, write to us today.

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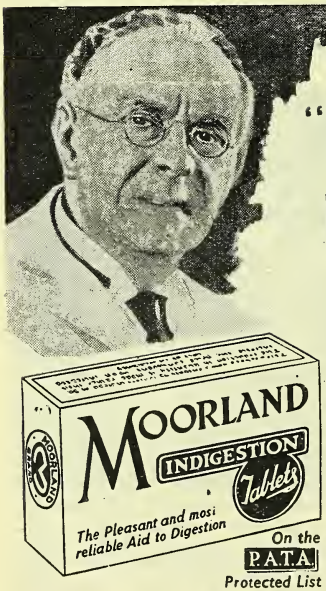

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Supplies increased to meet heavy demand

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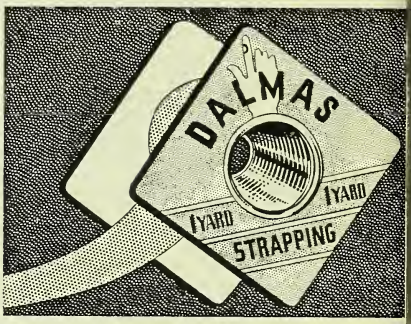
Dalmas Strapping is skin-coloured, hardly shows. Attractive sell-outs contain twelve 1/- spools, each 1 inch by 1 yard, price 8/-; or 24 spools, price 16/-. Special quantity discounts. Also in 2″ and 3″ widths. PLACE YOUR ORDER NOW!



Dalmas Strapping stretches all ways, is ideal for pla where a bandage would be awkward

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A new *waterproof* adhesive protection for cracked, cut or sore finger-tips. Handy boxes, price 1/- retail.

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Dalmas, a *waterproof* plastic dressing, provides a totally new method of protecting cuts and minor wounds. Like Dalmas Strapping, Dalmas First-Aid Dressings give complete protection against water, dirt, grease, acid—you can actually *wash with them on!* Edges stick tight, can't fray, can't catch in clothes. Dalmas lessens infection risk, promotes safe and easy healing.

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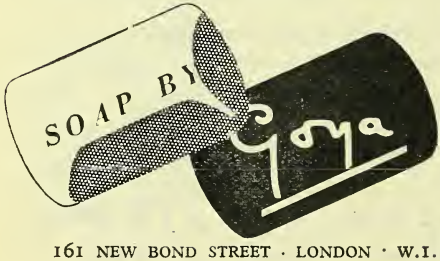

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THE Pharmacist's *advice*

Confronted, as he often is with a request for advice upon digestive disturbance when baby is bottle-fed, the Pharmacist may confidently recommend the use of * 'Milk of Magnesia'.

This antacid laxative checks the formation of indigestible protein curds and enables digestion to proceed with comfort.

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CERTAIN KILL

LASTING ACTION

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EVEN IN SMALL DOSES ordinary aspirin, which is acid and almost insoluble, may act as an irritant to the gastric mucosa, producing inflammatory changes visible on gastroscopy. In large or prolonged doses it also tends to deplete the systemic alkali reserve.

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YOU SHOULD STOCK
THE FINEST SCURF REMOVING & SCALP CLEANSING SHAMPOO

NUCTA OIL

THE SOAPLESS OIL SHAMPOO

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drink with medicinal properties, enjo
sales of 40,000,000 bottles annua
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Bottled as it flows from the Spring

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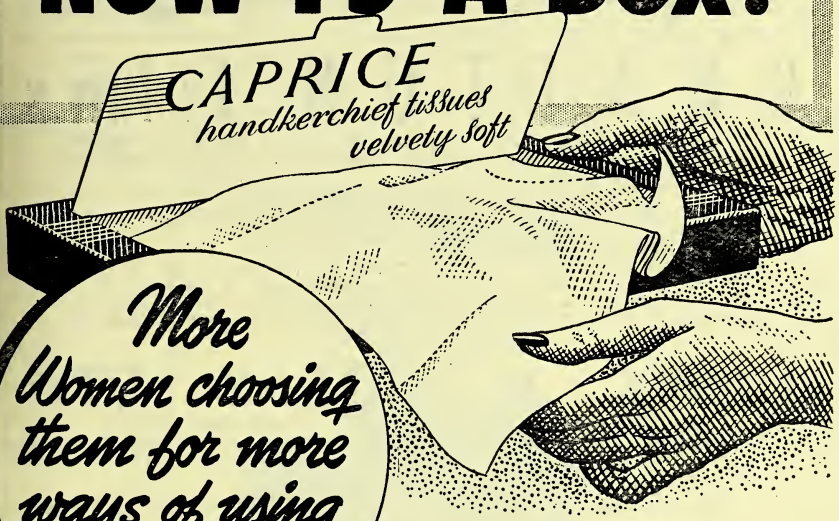

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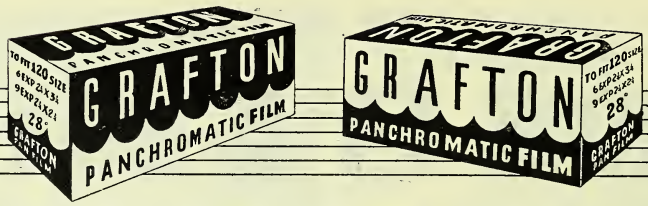

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FOR WOMEN WHO PREFER

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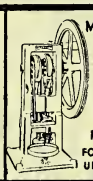
TABLET MAKING MACHINERY

MANESTY F3 TABLET MACHINE

OUTPUT 85 PER MIN.

TABLETS UP TO 3/4" DIAM.



MANESTY HAND TABLET MACHINE

OUTPUT 100 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

MANESTY E2 TABLET MACHINE

OUTPUT 85 PER MIN.

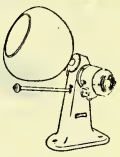
FOR TABLETS UP TO 1/2" DIAM.

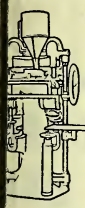
MANESTY HAND COMPACT PRESS

OUTPUT 2000 COMPACTS PER DAY

MANESTY CP2 COATING PAN

STANDARD SIZE 30" DIAM.





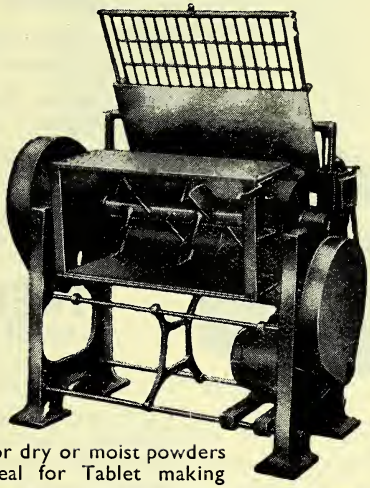
MANESTY B.B.3 ROTARY TABLET MACHINE

OUTPUT 1000-1500 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

MANESTY MIXER

PROMPT DELIVERY



For dry or moist powders
Ideal for Tablet making

MANESTY B3 ROTARY TABLET MACHINE

OUTPUT 400-500 PER MIN.

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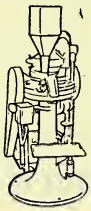
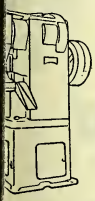




MANESTY Nº2A TABLET MACHINE

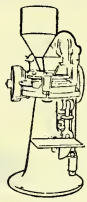
OUTPUT 55-220 PER MIN.

FOR TABLETS UP TO 1 1/2" DIAM.

MANESTY D3 ROTARY TABLET MACHINE

OUTPUT 300-350 PER MIN.

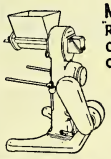
FOR TABLETS UP TO 1" DIAM.



MANESTY R.S.1 ROTARY TABLET MACHINE

OUTPUT 168-336 PER MIN.

FOR TABLETS UP TO 1 3/8" DIAM.



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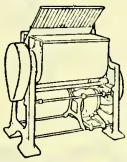
OUTPUT 150-224 LBS. PER HOUR.

MANESTY MIXER

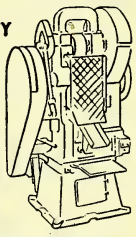
CAPACITY 100 LBS. OF POWDER



MANESTY Nº3 TABLET MACHINE

OUTPUT 30-400 PER MIN.

FOR TABLETS UP TO 2 1/4" DIAM.



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A whole two colour page in "Picture Post" . . .
A half page in full colour in "Illustrated" . . .
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A quarter page in the "Radio Times" . . .
8" double column solus spaces in the "Daily Express," "Daily Mail," and "Sunday Express" . . .
Big spaces in the "Daily Mirror" and "Sunday Pictorial" . . .
Whole pages in "Woman & Beauty," "Good Taste," "Woman's Magazine" and "Band Wagon" . . .
Large insertions in "Woman," "Woman's Own," "Woman's Weekly" and many other important women's magazines.

YOU MUST HAVE FELT YOUR SALES OF 'THICK & THIN' LIFT IN JUNE

and now . . .

A whole back cover in full colour in "Woman's Own" . . .
Full colour pages in "Woman & Beauty," "Modern Woman," "Heiress," "Band Wagon" . . .
A half page in full colour in "Woman" . . .
A full page in "Vogue" . . .
More big spaces in the National Daily and Sunday Newspapers . . .
Large spaces in "Radio Times," "Picture Post," and in fourteen leading women's magazines, with more to follow!

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by Goya

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Get ready!

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Gloria PEARS NEW LIQUID SHAMPOO

COMPETITION OFFERING
FREE OVER £6,000
IN CASH AND FUR COATS
Starting soon

SPECIAL DEALER PRIZES

Dealer selling Gloria to 1st Prize Winner receives	£250
Dealer selling Gloria to 2nd Prize Winner receives	£50
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Dealers selling Gloria to 50 Fur Coat Winners receive each	£5

FREE £560
IN DEALER PRIZES

No trouble for you

EVERYONE will see the competition announcements — for the national Dailies, the Sundays, popular weekly magazines and women's magazines will tell the public about this big £6,000 Gloria Shampoo Competition. Millions will see the posters displayed in railway and underground stations.

Millions more customers will demand Gloria. Big sales and extra profits for you! And a generous dealer prize may be yours.

Send in your Gloria order NOW. FREE display Cards and Entry Forms with full competition details will be supplied you. Feature Gloria Shampoo in your window and on your counter.

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PGT 3/923

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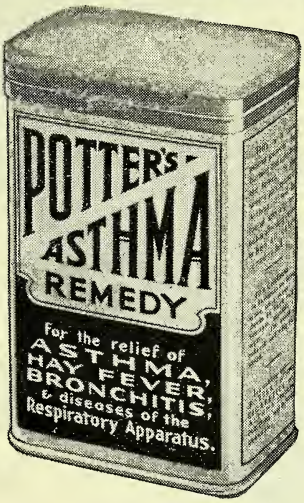

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Packed in half dozens

Well advertised and world famous
A sound selling line for every Chemist

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COUNTY PERFUMERY CO. LTD., STANMORE, MIDDLESEX

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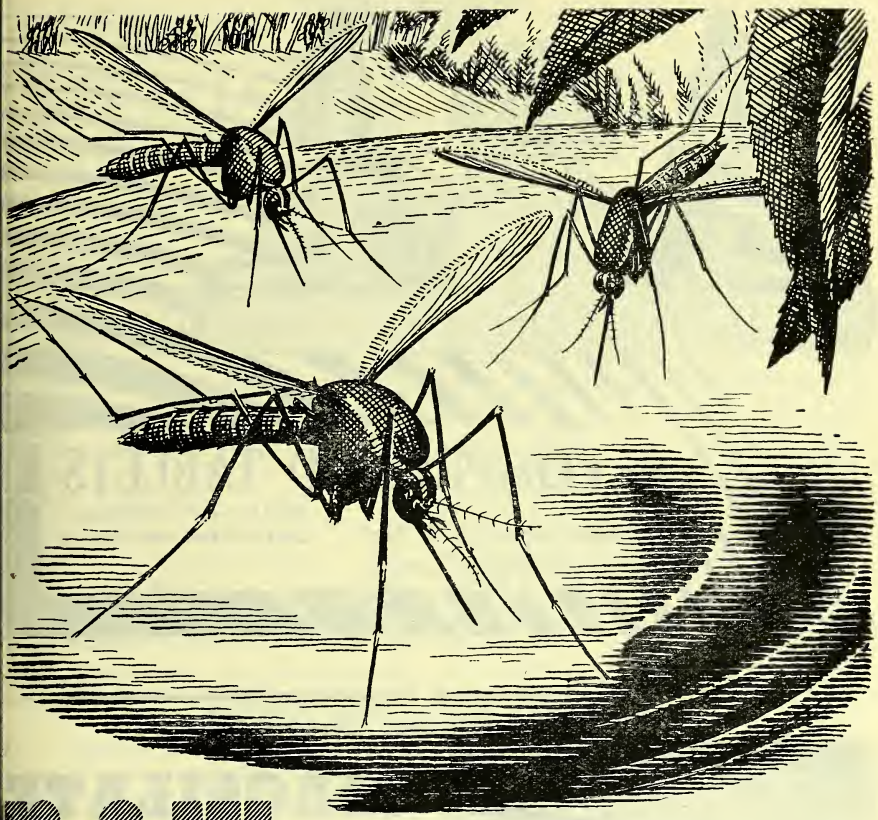

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to display 'Sketofax' prominently—and let it sell itself. Attractive display outers and showcards are available. A bonus of 13 to the dozen is given on orders of three dozen or over. Retail price: 1/4, plus 4d. tax.

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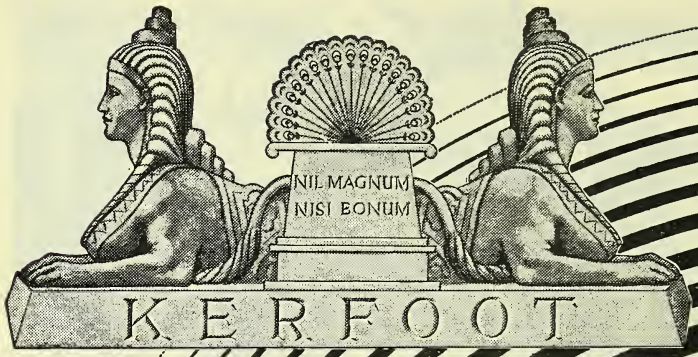

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A Pharmaceutical Achievement

MAGSILATE

ASPIRIN THERAPY
BROUGHT TO PERFECTION

CRUNCH THOROUGHLY AND EAT LIKE A SWEET

No water required

- **Quicker absorption — more effective actio**
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MAGSILATE is a CF product, sold *through chemi only.* Terms are profitable. Attractive showcards, i formative literature and free samples supplied wi orders.

Supplied in two sizes:—4d. & 1/10d. (inc. P. Tax) and Dispensing Packs of 125 and 500 Tablets.

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CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

JULY 9, 1949

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Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

le copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3620 Volume CLII

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NEWS OF THE WEEK

Key Industry Duty Exemptions.—rious chemicals, scientific instruments, ., are among the items to be exempted m Key Industry Duty from July 1 to cember 31. These exemptions are given ect by a Treasury Order, the Safearding of Industries (Exemption) (No. 5) der, 1949 (S.I., 1949, No. 1158). A l list of the commodities affected appears the "Board of Trade Journal," July 2.

Control of Noxious Gases.—A draft atutory Instrument prepared by the inister of Health proposes to extend the t of "noxious or offensive gases" conlled by the Public Health (Smoke Abateent) Act, 1926, to include volatile ganic sulphur compounds, fumes containg carbonaceous particles from black oduction works, and fluorine. The draft der also proposes to extend the schedule works affected by the 1926 Act.

One Year of National Insurance.—uring the first year of operation of the ational Insurance scheme seven million w claims to sickness benefit (an average of 140,000 a week) were made. The rate of new claims rose to a peak of 220,000 during the week ended February 22 and is now about 100,000 a week. The maximum number of people sick at any one time was about 1,100,000. About 800,000 claims to maternity benefit were made during the year.

Research Development Corporation.—The President of the Board of Trade has appointed the following members of the National Research Development Corporation (see *C. & D.*, June 25, p. 825):—Sir Percy Mills, K.B.E. (chairman); the Rt. Hon. the Earl of Halsbury, F.R.I.C., F.Inst.P. (managing director); Professor P. M. S. Blackett, F.R.S., M.A.; Sir John McLean Duncanson; Sir Edward H. Hodgson, K.B.E., C.B.; Mr. W. E. P. Johnson, A.F.C., C.P.A., A.F.R.Ae.S.; Sir Edward de Stein.

Trade with Spain.—Discussions on trade and payments between the United Kingdom and Spanish monetary area, in the year commenced July 1, have now been

successfully concluded. It is hoped, states the Board of Trade, that as a result of these discussions trade will run more smoothly and in due course at a higher level. It is not likely, however, that this higher level will be achieved before the autumn when the main Spanish exporting season starts and more sterling can be expected to be available to pay for exports from the United Kingdom.

Miss B. Hussey, chosen as "Miss Wellcome 1949" at the Wellcome Sports and Social Club Golden Jubilee celebrations at Dartford recently, is congratulated by the judge (Mr. Ted Kavanagh). See C. & D., *July 2, p.3.*

Scottish N.H.S. Amendments. — The National Health Service (General Medical and Pharmaceutical Services) (Scotland) (Amendment No. 2) Regulations, 1949 (S.I., 1949, No. 1168 (S.73)) bring the list of appliances given in Part I of the Third Schedule of the original regulation largely into conformity with the amended list already operative in England and Wales (see *C. & D.*, April 16, p. 482). The new regulations also authorise the calculation of payments due to chemists by an abridged method "whether by averaging . . . or otherwise" whereby the payments are "as nearly as may be" the same as if calculated by the original method.

Pricing of Doctors' Prescriptions.— The Minister of Health has announced that dispensing doctors who elect to be paid on the basis of the Drug Tariff (in preference to the drug capitation fee basis) for the supply of drugs and appliances, are in future to conform to the sorting and averaging arrangements applicable to chemists, with the modification that since they are paid on a quarterly basis, they will be asked to surrender their prescriptions quarterly, while sorting them monthly. Doctors who comply will be entitled quarterly payments on account. Docto who are paid on the Drug Tariff basis ca at any time elect to transfer to payment a drug capitation fee basis.

Visit to French Conference.—At meeting of the Executive of the Scotti Department of the Pharmaceutical Socie held in Edinburgh on June 15, Mr. C. Drummond in the chair, the resident se retary (Dr. D. McCall) reported on a r cent visit to Brittany as a guest at a co ference held in Quimper by the pharm cists of Western France. The recepti accorded to Dr. McCall and to Mr. Gordon Drummond, Falkirk, who had a companied him as a delegate, had be most cordial. The Society's Council h suggested that the Executive should i vite three of the French pharmacists wh the resident secretary had met at Qui per to be the guests of the Executive the British Pharmaceutical Conference Blackpool.

Pharmacy Exhibition for Doctors.— exhibition was staged by the Pharmaceu cal Society at the Royal Bath Hospit Harrogate, during the annual meeting the British Medical Association, June July 1. The displays dealt with metho of sterilisation, including dry heat (usi an electric hot-air oven with push-butt temperature control), moist heat, boili with a bactericide and sterile filtrati (with the testing for sterility). Aseptic m ing and filling of sterilised material v carried out beneath a transparent plas screen fitted with an ultra-violet-lig generator. Demonstrations were given the preparation of injection of lobel hydrochloride, including the technique filling under nitrogen, and of the use o *p*H meter in adjusting the *p*H of some jections. The filling of injections into fi containers by small-scale and large-sc methods was also shown. Two pharm cological exhibits illustrated curaris activity. One, an *in-vitro* experiment, monstrated the response of the *rectus dominus* muscle of the frog to acetylchol in Ringer's solution containing eserine. T second described an assay of curarising tivity on a conscious mouse in a rotat drum. A section on ultrasonics show how an ultrasonic generator could be u to make an emulsion of mercury in wa that remained stable for several hours, a drew attention to recent work on the of ultrasonics in killing certain strains bacteria.

LOCAL NEWS

Openings at Edinburgh.—Two shops on ew housing estates—one at Old Saughton d one at Moredun North—are being reved by Edinburgh Corporation for tting to chemists. Application forms, to returned by July 20, are obtainable from e City Chamberlain's Property Departent, High Street, Edinburgh.

Chemical Trade Golf.—In the chemil Trade Golf Competition held at ndiway on June 24, the Sir John Brunr challenge cup was won by Mr. G. T. hitehead and the scratch prize by Mr. . C. Welsh. The Rayner memorial team ize was won by the Synthetic Ammonia d Nitrates' team and a foursomes comtition by Messrs. A. B. Dewar and W. . Gill. The competitors were guests of e directors of the Alkali Division of nperial Chemical Industries, Ltd., at a nner at which Mr. W. M. Inman (chairan of the division) presided and presend the prizes.

Manchester Officers. — The following ficers of the Manchester and Salford anch of the National Pharmaceutical nion have been elected:—*Chairman,* r. W. Robinson; *Vice-chairman,* Mr. S. . Andrew; *Treasurer,* Mr. J. Tomlinn; *Secretary,* Mr. T. Miller, 3 Wyngate oad, Hale, Cheshire. The following are e new officers of Manchester Pharmautical Association (Junior Branch):—*hairman,* Mr. C. Melville; *Vice-chairen,* Messrs. J. Tomlinson and E. C. nes; *Treasurer,* Miss B. Morrison; *Secretary,* Miss I. F. A. Lewis, 27 Amherst Road, Fallowfield, Manchester; *Assistant Secretary,* Mr. S. Boulton.

Harrow Annual Meeting. — At the annual meeting of the Harrow Branch of the Pharmaceutical Society on June 16, Miss D. M. Jones described the origins and growth of the National Association of Women Pharmacists, and Mr. R. C. Rowson spoke on "Pharmacists in the National Health Service," reviewing dispensing statistics for Middlesex. The following officers were elected:—*Chairman,* Mr. J. M. Atkinson; *Vice-chairman,* Mr. F. E. W. Gibson; *Treasurer,* Mr. F. J. Conduit; *Editor* and *Publications Officer,* Miss M. E. Plear; *Secretary,* Miss D. I. Morgan, The Dispensary, Princess Louise, Kensington Hospital, London, W.10; *Assistant Secretary,* Mr. H. M. Foskett.

N.H.S. in Essex.—At a meeting of the Walthamstow Pharmaceutical Association and Branch of the National Pharmaceutical Union on June 14, Mr. S. T. James in the chair, Mr. G. F. Deeth (secretary, Essex Pharmaceutical Committee), gave a talk on the working of the National Health Service since its inception. After presenting statistics relating to dispensing in Essex (see *C. & D.*, June 18, p. 795), he discussed the pricing of prescriptions. The new pricing office at Burleigh Hall, Leytonstone, was, he said, the only office on one floor, and he considered it the best in the country. The following officers were then elected or re-elected:—Association: *Chairman,* Mr. T. W. Hill, Walthamstow; *Vice-chairman,* Mr. B. W. E. Beard, Walthamstow; *Secretary* and *Treasurer,* Mr. W. E. Gaze, 61 Handsworth Avenue, London, E.4. N.P.U. Branch: *Chairman,* Mr. H. L. Moppett, *Vice-chairman,* Mr. A. E. Leach, Loughton; *Secretary* and *Treasurer,* Mr. W. E. Gaze, Highams Park.

OUTING AT BANDORAN. —*Members of the Londonderry Chemists' Association and their friends photographed during their recent outing at Bandoran.*

OVERSEAS NEWS

Trade With Sweden. — Additional licences for the importation into Sweden of chemicals and minerals, valued at about £1,000,000, may be granted following discussions between Swedish and United Kingdom delegations.

Mexico Restricts Imports.—A Presidential decree, effective since June 21, prohibits all imports of perfumery and cosmetics into Mexico. The decree follows the publication of a new official exchange rate for the Mexican peso.

Pakistan Importers' Association.—The first meeting of the managing committee of the Pharmaceutical Importers' Association, Pakistan, Ltd. (set up recently to carry out functions similar to those performed by the Pharmaceutical and Allied Manufacturers' and Distributors' Association, Bombay), was held in Karachi on June 17. The following were present:—Messrs. W. S. Black, M.P.S. (Bliss & Co., Karachi), L. A. H. Dickens (Boots Pur Drug Co. (Pakistan), Ltd.), L. R. Stan nard (Martin & Harris), J. Birnie, M.P.S (Glaxo Laboratories, Ltd.), G. Ingli (May & Baker, Ltd.), R. M. Pinto (rep resenting Mr. D. Flett, M.P.S., I.C.I. (Ex port), Ltd.), and A. A. Watson, M.P.S (Evans Medical Supplies, Ltd). The fol lowing officers were elected to act unti the general meeting to be held on Septem ber 1:—*President,* Mr. Dickens; *Vice president,* Mr. Black; *Treasurer,* Mr. Stan nard; *Secretary,* Mr. Watson. The regis tered office of the Association is c/o Blis & Co., Karachi (Post Office box 315).

India's Sterling Needs.—India will see the release of a "substantial quota" c blocked sterling, with about £50 millior for multiple conversion, at forthcomin sterling talks in London. Financial obse vers in New Delhi think that, even Britain agreed to an unlimited release c sterling, India would still have to emba on an austerity import programme.

PRICING CHANGES EXPLAINED IN GLASGOW

At a meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society on June 29, Mr. S. Hughan (chairman) presiding, Dr. David McCall (secretary, Pharmaceutical Standing Committee (Scotland)) explained the circumstances that had led up to the adoption of an abridged scheme of pricing for Scottish National Health Service prescriptions. A considerable volume of arrears had accumulated because of the inability of the Drug Accounts Committee to recruit staff. It had therefore been proposed, after consultation with representatives of the chemists and the Drug Accounts Committee, that from July 1 the pricing of prescriptions should be based on the use of averages, instead of on detailed pricing. He explained the use of the average correcting figure to be applied to Group B prescriptions and said roughly 10 per cent. of all prescriptions in the country would be priced in full. Mr. McKay suggested that chemists should do their own pricing for October, November and onwards, leaving the staff of the pricing bureau to deal with the arrears. Dr. McCall said this obvious solution had been considered, but there were a number of objections. It would effect no saving in time as it would be necessary to check all the prices rendered by the pharmacists. A motion study expert was at present studying th conditions in various pharmaceutical e tablishments and when his report was r ceived the Standing Committee would b able to put forward the correct dispensin rate per hour. Answering a question fror Mr. McLean, Dr. McCall said that h committee was trying to persuade the De partment of Health to agree to the r turn of duplicate forms to the chemi in the event of a return to full pricin Mr. W. G. Robb, Paisley, asked if th committee was negotiating for payment fo out-of-hours services. Dr. McCall replie that the view of the Department of Healt was that it was a matter for the chemist themselves if they cared to arrange a rot system for out-of-hours services. D McCall concluded by repeating an assu ance made by the Department of Healt that it was to try to return to full pri ing as soon as possible. The Standin Committee was against the principle c accepting averages and had chosen th lesser of two evils—an abridged schem with small risk and prompt paymen Committee B would do everything in i power to return to full pricing at th earliest possible moment. Mr. W. S. Cu bert proposed a vote of thanks to D McCall and to Committee B for its wor in the negotiations.

TOPICAL REFLECTIONS

scussion in Scotland

The annual meeting of the Scottish de-rtment of the Pharmaceutical Society p. 12, 17) was marked by discussion on pics of importance. The new system of ction to the Executive is, as you point t, an improvement on the former sys-n. The chairman (Mr. C. G. Drum-nd) was justified in claiming that Scot-h pharmacy has played its part in the tional Health Service "with the ability d competence anticipated." As a subse-ent speaker indicated, and as letters in ur Correspondence section (p. 26) em-asise, pharmacists in Scotland—and, I y add, further south—have done every-ng expected in the Service except re-ive adequate payment. The announce-ent that the Society's Council is to hold October meeting in Edinburgh will give me members a shock. One would have ought that so remarkable an innovation uld have been reserved for an outstand-g pharmaceutical occasion—for instance, e centenary of the establishment of the orth British Branch, due in 1951. I trust at this pleasant excursion will not be garded as a precedent. My objection to itinerant Council is merely economic. ny change of venue of this kind must volve additional work for some members the headquarters staff, and in all prob-ility an increase in travelling expenses. nce the idea that such changes of scenery e invariably beneficial gains acceptance, ere seems to be no obstacle to choosing a fferent locality for each Council meeting.

e Spirit of Enterprise

Though the subject-matter of your eekly Trade Notes is not often suitable r comment in this section, I read them gularly. Much as they vary in content, e feature is never absent; I refer to the irit of enterprise. Whether a paragraph fers to a scientific development or to an djunct for a window display, the same petus is to be found. It is here, surely, at one of the chief hopes of the future es. Just before opening your issue of ly 2 I was reading a report of two eeches made at a dinner of the Land gents' Society. The first speaker referred, ith a tinge of pessimism, to "living in a untry where the principal profession was ginning to be that of watching other eople work and trying to interfere with em while they were doing it." The cond speaker, in contrast, claimed that the young men entering his profession were a magnificent lot, and that the vast majority were independent, robust-minded, and imbued with the spirit of service. Rapid perusal of daily newspapers may create a sense of depression because of the prominence given to disputes of many kinds. We seem to have moved backwards from the condition envisaged in Herbert Spencer's "Data of Ethics": "In the process of social evolution going on around us, there is a conciliation taking place between the interests of each citizen and the interests of the citizens at large, tending ever towards a state in which the two become merged into one. . . ." We are sometimes inclined to regard Spencer's dictum as wishful thinking. But we may make bold to claim that the spirit of enterprise and the spirit of service are two facets of the same faculty.

An "Improved" Friar's Balsam

While consulting Nichol's "Literary Illustrations of the Eighteenth Century," recently, I came upon a reference to Dr. Robert James which, I suppose, has remained buried in that voluminous work for more than a century. The reference occurs in a letter, dated August 17, 1753, from the Rev. Samuel Bush of Wadhurst to Dr. John Burton of York, who was the original of Sterne's Dr. Slop in "Tristram Shandy." The passage reads: "In Dr. James's letter to me, he has advised me to take 40 drops of the Fryer's balsam twice a day. He finds fault with the prescription in the Dispensatory of the College; according to which it is made by most Apothecaries, and has recommended me to some which is made by Mr. Brandt, the King's Apothecary, in Arlington Street." As students of pharmaceutical history know, our present official compound tincture of benzoin does not differ much from the balsamum traumaticum of the 1746 Pharmacopœia Londinensis. On reading the passage cited, my thoughts turned to James's "Pharmacopœia Universalis." In the second edition of that book (1752) he made no adverse criticism of the P.L. preparation: apparently, therefore, he had changed his mind soon afterwards, and possibly on the representation of Mr. Brandt. If so, this was not the last time that a medical man abandoned an official galenical in favour of a proprietary one. So far as I know, Brandt's friar's balsam has completely disappeared. ***Xrayser***

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

ASKED by MR. B. JANNER on June 27 whether he would consider raising the general building limit of £100 a year for maintenance, repair and reconditioning, MR. C. W. KEY (Minister of Works) replied that he had seriously considered raising the £100 limit. Such a step would, however, give rise to the serious risks of overloading the building industry once again, and thus slowing down the rate of new building, and of obstructing progress on important projects. He had therefore made an Order maintaining the present limits unchanged for twelve months.

Industrial Diseases

MR. G. C. TOUCHE asked the Minister of National Insurance on June 28 what recommendations had been made for extending the list of prescribed industrial diseases. MR. JAMES GRIFFITHS replied that the list of industrial diseases had been extended to include beryllium poisoning, and he was considering a recommendation about forms of cancer among nickel workers.

Vitamin Foods in Scotland

MAJOR GUY LLOYD asked the Minister of Food on June 29 what proportion of mothers in Scotland were taking up the free and cheap allowances of orange juice, cod-liver oil, and vitamin pills, and what was happening to the unwanted stocks. DR. EDITH SUMMERSKILL (Parliamentary Secretary) said that about 25 per cent. o the total amounts of orange juice, coc liver oil and vitamin tablets that mothe were entitled to receive for themselves o for their children were being taken u There were no unwanted stocks, since su plies were closely correlated to demand

Sugar for Pharmaceutical Purposes

MRS. LEAH MANNING asked the Mini ter of Food on June 30 what quantities o sugar, in terms of weight, were represente by the annual allocations now being mad for each class of pharmaceutical prepara tion designated as official, non-official, an medicinal tablets and lozenges. DR. EDIT SUMMERSKILL (Parliamentary Secretar replied that the estimated usage of suga for pharmaceutical preparations for th year 1949 was:—Official preparatior (recognised by the British Pharmacopœia 5,900 tons; non-official preparations (re cognised by the medical profession), 2,600 medicinal tablets and lozenges, 3,500 ton

Analgesia Amendment Defeated

An amendment to the National Healt Service (Amendment) Bill, moved by MRS LEAH MANNING to ensure that midwive would be able to render "all service reasonably necessary, including in particu lar the administration of analgesia," wa defeated in standing committee on July by sixteen votes to fifteen.

LEGAL REPORTS

Pharmacy Act Cases.—At Ebbw Vale police court, recently, Joseph, Albert and Joseph Roger Thayer, trading as J. Thayer & Sons, Cwm, Mon, were fined £1 each on a charge of selling a poison on premises not registered for the purpose.

Labelling Summons Dismissed.—Liverpool stipendiary magistrate, at an adjourned hearing on June 29, dismissed a labelling summons against Stotherts, Ltd., manufacturing chemists, North Road, Atherton. The first hearing on April 27 had been adjourned so that a report might be obtained from the Government chemist of his analysis of an official sample of Glempec cough mixture. Labels on the bottles stated that the ingredients included 1.2 per cent. glycerin, but the Liverpool deputy city analyst said that the sample he analysed contained no glycerin Affirming that the label was correct, th chief chemist to Stotherts, Ltd., said th method used by the deputy city analys gave erratic results. The Governmen chemist's report, when received by th deputy stipendiary magistrate, showed tha the sample contained 1.06 per cent. gly cerin, and that the label on the bottle wa therefore substantially correct. The sum mons against Messrs. Stotherts was dis missed and they were awarded £12 12s costs.

Ointment Makers Fined.—At Bangor North Wales, magistrates' court recently C.W.S. Retail Co-operative Society, Ltd., 1 Balloon Street, Manchester, pleaded no guilty to selling at their Manchester House, Bangor, branch a drug not of the

ature, substance or quality demanded. Mr. Nelson Howson Bennett Powner, rading as St. Mary's Oil Co., Haddon, Bryn Pydew, Llandudno Junction, pleaded uilty to two charges of selling an oil and intment to which false trade marks and rade description had been applied. For he County Council it was stated the oil vas supposed to contain, according to the ormula displayed on the bottles, 80 per ent. rape oil, 6 per cent. camphor, 10 per ent. turpentine, 3.5 per cent. paprika, and .5 per cent. capsicum. Instead, camphor nd turpentine, the active principles, were resent only in the form of a mixture that onstituted 2.8 per cent. (not 16 per cent.) f the whole. The ointment, which was upposed to contain 40 per cent. rape oil, o per cent. yellow soft paraffin, 3.5 per ent. paprika, 10 per cent. turpentine, 6 er cent. camphor, and 0.5 per cent. capcum, contained only 9.6 per cent. of a mixture of camphor and turpentine, and 90.2 per cent. of yellow soft paraffin; 0.2 per cent. consisted of undetermined substances. Prosecution contended that the Society's argument that the invoice for the goods acted as a warranty applied only to commodities with a statutory standard. For the St. Mary's Oil Co. it was pleaded that the offence was technical. The oil and ointment were originally of the composition on the formula, but boiling drove off the volatile active ingredients. The company pleaded guilty to two further charges, brought against them by the Co-operative Society, of selling them drugs not of the nature, substance or quality demanded. The case against the Society was dismissed, and no order for costs was made. St. Mary's Oil Co. was fined £3 on each of four charges and ordered to pay a sum of £7 towards the costs of the action.

NEW COMPANIES

Braddocks (Cosmetic & Photographic), Ltd. (P.C.)—Capital £100. Linnie Davies and Arthur Davies, directors. R.O.: 7A Manchester Street, Oldham.

Portland Pharmacy, Ltd. (P.C.).—Capital £100. To acquire the business carried on at 140 Portland Road, London, W.E.25, as the Portland Pharmacy, and to carry on the business of manufacturers of, and dealers in, chemical goods, etc. Jack Green and Rose Green, M.P.S., directors.

Company News

Laporte Chemicals, Ltd.—Net profit for the year ended March 31 amounts to £396,467, against £259,970. The directors recommend a final dividend on the ordinary stock of 12½ per cent., less tax, maintaining the dividend for the year at 17½ per cent., less tax.

Albright & Wilson, Ltd.—The resolution to increase capital by the creation of 1,000,000 4 per cent. redeemable cumulative preference shares of £1 each (see *C. & D.*, June 4, p. 732) will not now be moved, as the directors do not consider market conditions opportune.

Ilford, Ltd.—The Capital Issues Committee has consented to an issue of 1,133,332 ordinary shares of 5s., and they are to be offered to ordinary shareholders at 18s. in the proportion of one new ordinary for every three held. The proceeds will amount to approximately £991,000 after meeting expenses, and will be used mainly to increase manufacturing capacity.

Unichem, Ltd.—The annual general meeting was held on June 29. The accounts for the year ended December 31, 1948, were presented by the chairman (Mr. D. A. Rees, Ph.C.). He said the volume of business during the past year had shown a marked increase, but the net profit was slightly lower than in the previous year—£1,346, against £1,521. A dividend of 6 per cent. was declared on the ordinary shares and a balance of £876 (£875) carried forward. The retiring directors, Mr. J. C. Young, Ph.C., and Mr. C. H. Foster, M.P.S., were re-elected at the meeting.

Amber Chemical Industries, Ltd.—Accounts for the first year of trading to December 31, 1948, show group trading profit as £63,407 and a net profit of £52,437. After provision for taxation and setting aside the proportion of profits of a subsidiary company earned prior to acquisition there remained £23,313 available for distribution. After payment of preference dividends, an interim dividend of 15 per cent. and a final dividend of 20 per cent. absorbed £17,325, leaving a carry-forward of £3,238. At the first annual general meeting held recently the retiring director, Mr. P. A. C. K. Buchanan, was re-elected.

MARRIAGES

FOLEY—O'SULLIVAN. — At Dublin, on June 22, Cornelius H. Foley, M.P.S.I., youngest son of the late Mr. M. J. Foley, M.P.S.I., 136 Parnell Street, Dublin, to Margaret O'Sullivan, Dublin.

DEATHS

BEAN.—On June 14, Mr. Percy Bean, Deeside, Spath Road, Didsbury, Manchester, aged seventy-seven. Mr. Bean served his pharmaceutical apprenticeship with Ainsworth & Clayton, Blackburn, and qualified as a chemist and druggist in 1893. For some years he was lecturer in chemistry at Liverpool Technical College and in 1901 set up in practice in Manchester as an analytical and research chemist.

DISTIN-BAKER.—At Brighton, on June 23, Mr. E. Distin-Baker, 107 Beaconsfield Villas, Brighton, for nearly thirty years a representative of D. & W. Gibbs, Ltd., London.

FEARNLEY. — Recently, Mr. Fairfax Fearnley (Fairfax Fearnley, Ltd., chemists and opticians, 17 Manor Square, Otley, Yorks), aged seventy-eight. Mr. Fearnley was a founder member of Otley Rotary Club, and was recently elected to honorary membership of the club.

PARRY.—At Redhill Hospital, Surrey, on June 23, after a short illness, Mr. Richard Ernest Parry, M.P.S., 45 High Mead, Station Road. Harrow, Middlesex, aged sixty-three. Mr. Parry studied at the Liverpool School of Pharmacy and qualified in 1912. For the past ten years he had been acting as relief manager for E. Moss, Ltd., chemists, Feltham, Middlesex.

READ.—At Shanghai, China, recently, Mr. Bernard Emms Read, Ph.D., Ph.C., head of the Lester Research Institute, Shanghai, aged sixty-one. Mr. Read qualified as a chemist and druggist in 1909, and passed the Pharmaceutical Chemist examination the same year. In 1932 he was appointed head of the Division of Physiological Science, Lester Research Institute, after having been for a number of years professor of pharmacology at the Peiping Medical Union College. Dr. Read carried out numerous investigations on Chinese drugs and foods, and compiled a Chinese materia medica. He was the author of other works on pharmaceutical and allied subjects, and was a frequent contributor to the technical Press.

PERSONALITIES

MR. J. F. COSTELLO, M.P.S.I., has bee elected mayor of Galway for the fifteent time in succession. This is claimed to be a Irish record.

MR. R. A. SHELDRAKE, M.P.S., 3 Appleton Gate, Newark-on-Trent, was successful candidate in a recent by-electio for the Newark town council.

MR. F. LEWIS WATSON, M.P.S. (orgar ising secretary of Unichem, Ltd.), has bee installed president of the Rotary Club c Tooting.

MR. W. T. J. METCALFE (advertisin manager, Bob Martin, Ltd.) recentl addressed the Liverpool branch of the Ir corporated Sales Managers' Association o "Market Research."

MR. H. N. SCROOPE, M.P.S.I., was th guest of the Council of Irish Pharmaceuti cal Students' Association, in Dublin, re cently, prior to his departure to Rhodesi to take up a pharmaceutical appointmen

MR. J. H. WILKINSON, Ph.D., F.R.I.C M.P.S., the author of an article on ne methods of administering drugs publishe on p. 51, is lecturer in chemical patho logy at Westminster Medical School (Uni versity of London). Apprenticed wit Joseph Cowper, Ltd., Penrith, Cumber land Dr. Wilkinson qualified as a pharma cist in 1937 after studying at the Sout of England College of Pharmacy, and wa then appointed demonstrator in chemistr and biology at the College. In 1938 h obtained the Diploma in Biochemica Analysis, and the following year wa appointed senior assistant pharmacist a Forest Gate Hospital and West Ham Cen tral Home. After taking his B.Sc. genera (Hons. Lond.) from Chelsea Polytechnic i 1940 he obtained his Associateship of th Royal Institute of Chemistry, and B.Sc special (Hons. Lond.) in chemistry, fron South-west Essex Technical College, i 1943, and was appointed a research che mist with May & Baker, Ltd., Dagenham Essex. In 1947 he was awarded his Ph.D (Lond.) for a thesis on the properties o fluorine-substituted 5-aminoacridines an related compounds. Dr. Wilkinson has pub lished a number of papers dealing wit acridine derivatives, sulphonamides, uri nary steroids, etc., and has just complete a course of lectures to the East Metropoli tan Branch of the Pharmaceutical Society entitled "Modern Aspects of Chemo therapy."

A PROMISING DEVELOPMENT IN PERFUMERY

The introduction of a new perfume is nevitably something of a trade occasion. For four perfumes to be launched at a ingle venture is an event as noteworthy as—and even more rare than—the birth of quadruplets.

But what gave a unique quality to "Daytime in Mayfair"—the introduction on June 30 of the four new Daytime perfumes of J. & E. Atkinson, Ltd., London — was that the series embodied a new and fruitful idea for the perfumery industry in this country. The idea, if it is as successful as it is boldly conceived, will transform Englishwomen into lavish users of perfume of a different character and in different circumstances from those that have set the standard until now.

Hitherto, say Messrs. Atkinson, perfumes have been used in this country with an excess of caution. They have been "put upon a pedestal of rarity," not alone as something to be used sparingly because the high price has been paid for them, but as being perhaps a trifle exotic and unsuited to the English outlook on life. To bring about a change in this attitude obviously requires more than a lowering of price. Cheaper perfumes have found their market, but in the way they are used they are not essentially different from the more expensive and subtle kinds that command high prices. What is wanted, it is argued, is a range of perfumes suited to the mainly outdoor everyday life of the average woman in these islands—suited not only in fragrance but in concentration. That is what the company has set itself to provide, and the outcome is four perfumes whose purpose is reflected in their titles: Lightheart, Chypre, Bal des Fleurs and Mirage.

In launching them, the company is also embarking on a publicity campaign to encourage the freer and more imaginative use of fragrance as a "fourth dimension of beauty." A film has been prepared for exhibition by large stockists such as departmental stores showing ways rather more subtle than the traditional "dollop behind the ears" of applying perfumes. A touch is given to the wrists and forearms. A little perfume is rubbed between the fingers, into the bend of the arm and behind the knee. The hair receives a light spraying, and a sprinkling is given to the inside of gloves and handbag, to the lining of a jacket or the inner hem of a frock With concentrated perfumes such free use could easily become overpowering but in the Daytime series the blenders' aim has been to use the finest perfumery materials but at a concentration suited to the method. Hence they are available at moderate prices compatible with their being used in the ways mentioned. Each of the four fragrances is issued in four sizes, in bottles of the handsome yet simple design shown in the illustration. Distribution has commenced, and a small testing and display stand is in course of preparation. As part of the campaign to popularise the perfumes, window displays are being arranged in many towns to coincide with the local showing of a film "Maytime in Mayfair," starring Anna Neagle and Michael Wilding.

BUSINESS CHANGES

Vitamins, Ltd., have appointed Mr. R. M. Baddeley advertising manager.

Mansfield, Sutton and District Co-operative Society, Ltd., is shortly to open a pharmacy branch at 190 Southwell Road East, Rainworth, Notts.

Duncan, Flockhart & Co., Ltd., have appointed Mr. Eldred J. Holder, Ph.D., B.Pharm., Ph.C., general manager in charge of the company's interests in Edinburgh.

Whiffen & Sons, Ltd., have appointed Mr. R. G. Archer manager of the home sales department in London, in succession to Mr. C. W. Bailey, who retired on June 30. Mr. Archer was formerly the company's representative for the Midlands, the North of England, and Scotland.

TRADE NOTES

Show Material.—Richard Hudnut, Ltd., Power Road, London, W.4, are issuing Taperette refill blades in a 1-doz. display outer. A showcard is also available.

Bottle-return Labels.—James Townsend & Son, Ltd., Little Queen Street, Exeter, can supply stock labels requesting customers to return empty medicine bottles (see *C. & D.*, July 2, p. 1).

Slip-on Finger Nails.—Dobson & Steiner, Ltd., 66 Grosvenor Street, London, W.1, market slip-on finger nails in a variety of colours including natural, ruby, flamingo and pink. The product is available for immediate delivery.

Reorganisation.—The business of Allcock Products, Ltd., has been completely reorganised under new management in new works at 225 Knowsley Road, Bootle, Liverpool, 20. Distribution is being undertaken by the company from that address.

Paper Tissues.—Cumberland Paper Co., Ltd., Cleator Mill, Cleator, Cumberland, are the manufacturers of Cumbella "soft-as-silk" paper handkerchiefs, which are issued in attractively printed two-colour packs of two sizes.

Discontinued. — British Chemicals & Biologicals, Ltd., 43 Regent Street, Loughborough, Leics, state that Genatosan, Ltd., have discontinued the manufacture of Genatosan rose-hip syrup. No further supplies are available.

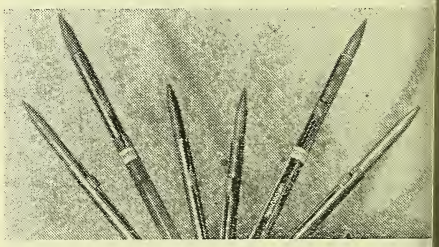
Alterations to Product Ranges.—Glaxo Laboratories, Ltd., Greenford, Middlesex, have introduced a dispensing pack of 1,000 Heptalgin tablets. They announce that all sizes of Derobin and all sizes of complete and spare feeders have been discontinued.

Suspension of Sulphonamides.—To meet a demand for a preparation of Sulphatriad brand combination of sulphamerazine and sulphathiazole in a form readily acceptable to children and patients unable to swallow tablets easily, Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, have introduced Sulphatriad suspension, an elegant preparatio flavoured with blackcurrant. Each fl. oz contains 4 gm. of Sulphatriad. The suspen sion is supplied in bottles of 4 oz. an 80 oz.

A Decision Confirmed. — Menley & James, Ltd., 123 Coldharbour Lane, Lon don, S.E.5. point out that Benzedrine in haler has been allowed to be prescribe under the National Health Service sinc its inception. Recently the Ministry o Health confirmed that position.

Holiday Closings.—Herts Pharmaceu ticals, Ltd., Welwyn Garden City, Herts announce that the company's offices an works will be closed for the annual holida from Friday afternoon, July 15, until Tues day morning, August 2. During tha period only a skeleton staff will be avail able to handle urgent inquiries for th company's ethical products.—Works an warehouse of Thomas Morson & Son Ltd., will be closed for annual holiday from Friday evening, July 15 until Tues day morning August 2. During that perio only urgent orders will be dealt with; n deliveries will be accepted between Jul 16 and August 1.

Lip Pencils.—Henry Tetlow Co., Ltd Beresford Avenue, Wembley, Middlesex have put on the market Swandown Clear



line lip pencil in a range of four shad (cherry, rose-cerise, medium and dark). display stand is issued with all orders four dozen and over.

Detachable Scalpel Blade.—Geo. H Lawrence, Ltd., Sheffield, 3, have perfecte a new detachable scalpel blade of speci surgical steel, to be marketed as Laur scalpel blades. The blades are at preser being manufactured in the standard size (Nos. 21, 22 and 23) to fit the norm (No. 4) Bard-Parker type handles. Sampl blades and full particulars may be obtaine

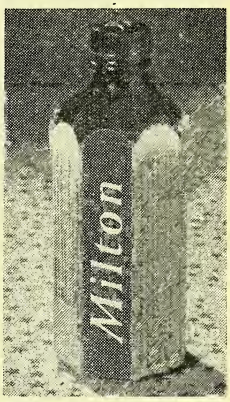
rom Henleys Medical Supplies (Henley Industries, Ltd.) Alexandra Works, Clarendon Road, Hornsey, London, N.8.

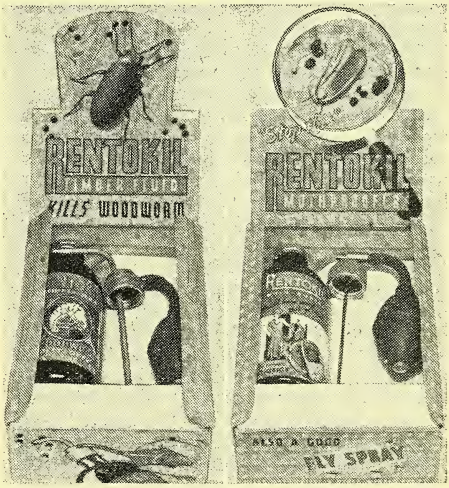
Leg Make-up.—Colloidal Chemists, Ltd., 35 Bessborough Place, London, S.W.1, offer Damaskin Cosmeticolor leg make-up, described as smooth and easy to apply and removable only with soap and water. The preparation is issued in screw-capped glass jars. Display material is available through the sole distributor of the preparation, Thomas Christy, Ltd., Farnham, Surrey.

Price Changes.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, state that reduced prices for Haliborange will operate from September 1. — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce that the price of Wellcome brand normal horse blood, oxalated (without preservative) 100-c.c., has been increased. — The Metal Box Co., Ltd., Portland Place, London, W.1, state that a revised schedule of prices for Press-caps reseal closures took effect on July 1.—Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1, have reduced the retail prices of their 0.5-gm. tablets of alphadiazine in containers of 100, 500 and 1,000.

NEW PACKS

Colgate - Palmolive - Peet, Ltd., 145 Charing Cross Road, London, W.C.2, direct attention to their new cream shampoo, Lustre-Creme, which is claimed to clean the hair without making it dry, not to harm the minute scales of the hair, and not to cause insoluble precipitates in hard water. The cream produces a rich lather that is easily rinsed, leaving the hair "lustrous and manageable"; it is issued in blue-capped jars.—Macleans, Ltd., Great West Road, Brentford, Middlesex, have introduced a holiday-pack containing Macleans peroxide tooth-paste and Nylon tooth-brush. Details of prices were given in the company's announcement last week.—In a new pack for Milton antiseptic, Milton Antiseptic, Ltd., Brewery Road, London, N.7, have provided the bottle with a "sleeve" in maroon, red and cream on white card Two of the eight sides carry the name Milton in large letters for display, and the remaining six sides carry directions for use. The sleeve is gummed to the bottle, so that it cannot be thrown away; being varnished, it remains useful so long as the bottle lasts.—Rentokil, Ltd., School Lane, Fetcham, Leatherhead, Surrey, have issued two new cartons, as illustrated, one for Rentokil timber fluid and another for Rentokil mothproofer and fly-spray. The timber-fluid carton contains an 8-oz. bottle and injector, and the mothproofer outfit comprises an 8-oz. bottle and spray. Leaflets are included in the cartons.





PROPRIETARY ASSOCIATION ANNUAL REPORT

THE twenty-ninth annual report (1948) of the Proprietary Association of Great Britain, as presented to members at the annual meeting in London recently, puts on record the large amount of work done by the Association during the previous twelve months—an amount seldom equalled in its history. A campaign against the purchase-tax provisions of the Finance Bill had entailed a particularly heavy demand on the Association's resources. As a result of propaganda carried out by the Executive towards securing removal of purchase tax on drugs and medicines "a more sympathetic atmosphere than has previously existed was created in the House of Commons." Many members expressed interest in and support of that campaign, in which every member of Parliament was circularised with a statement of the Association's views on the tax. Particular objection was registered to the discriminatory and arbitrary measures adopted in exempting articles by means of Treasury orders. Special Press conferences were held during the campaign, and information issued by the Association was published in many organs of the national and provincial Press.

During the year, publication of the Association's bulletin was suspended, owing to pressure of work upon more important matters, but publication is to be resumed if members desire it. The Association remained in contact with Government departments on a wide range of subjects of both general and specific interest to members. Where anomalies created by legislation were brought to its notice, representations were frequently made to the departments concerned. In turn, the Association was consulted by the Ministries on matters of interest to the industry.

National Health Service

The recorded increase in patients on doctors' prescribing lists from 19.706 millions under National Health Insurance in 1938 to 33.5 millions in the first three months under the N.H.S. "has been reflected in the increased prescribing of many proprietaries." Although the period during which N.H.S. has operated is considered too short to judge its effect on the sales of proprietary medicines, the report pays tribute to the survey carried out by THE CHEMIST AND DRUGGIST during the first six months of the scheme (*C. & D.*, 1948. II. 180, 213). A slightly confuse situation is recorded in the prescribing c proprietaries under N.H.S. for "whils there are reports of more proprietary med cines being prescribed by some pract tioners than hitherto, others refuse to issu prescriptions to their patients for a propr etary medicine if there is a similar offici preparation in one or other of the ap proved formularies." Available statistic indicate that the public is still willin despite the coming into operation of th National Health Service, to buy "recog nised standby remedies for the treatmer of transient ailments."

Packaging Controls

In September 1948 the Associatio sought members' views on packaging cor trols, and submitted to the British Star dards Institution recommendations fo relaxing packaging schedules B.S. 866 1940, and B.S. 108, 1942. The Britis Standards Institution committee dealin with the matter later completed its pre liminary work and its recommendations ar being sent to interested parties for thei approval or comment before proposals ar finally submitted to the Board of Trade The Committee was understood to be un willing to recommend relaxation of con trol for any single group of commoditic without considering the picture as a whole

Advertising

Not less than 674 separate pieces of ad vertisment copy, together with seventy nine drafts of labels, leaflets, etc., had during the year, been scrutinised by th Association prior to publication. When ever the attention of the Association wa drawn to undesirable advertisements issue by non-members, the facts were reporte to the Newspaper Proprietors' Associatio and Newspaper Society, and it was fre quently found possible to secure refusa of publication to the offending advertise ments. The Executive is again recom mending members of the Association t support, so far as practicable, the plan fo limitation of advertising submitted for th current year by the Federation of Britis Industries, although the pharmaceutica industry is not one of those industrie "designated" by the Chancellor of th Exchequer in respect of voluntary limita tion of advertising expenditure.

PROBLEM OF THE UNQUALIFIED DISPENSER

Discussion at Annual Meeting of Society's Scottish Department

A DISCUSSION on "The Problem of the Unqualified Dispenser in Pharmacy" at the annual meeting of the Scottish Department of the Pharmaceutical Society on June 15 was opened by Mr. A. A. Meldrum.

MR. MELDRUM began by saying that it was quite conceivable that the institution of some form of examination to show evidence of fitness for assistantship might have to be considered. As the statutory qualification would soon be more or less at degree level, the gap between qualified and unqualified would be more than ever widened. That unqualified assistants were being, and had been, employed in pharmacy must be accepted. Information about the number of unqualified assistants engaged solely in dispensing or work of a similar nature was scanty but, from the Working Party's report, about half the dispensing personnel employed was unqualified. The Pharmacy Acts and National Health Service Acts provided for dispensing to be done by or under the supervision of a pharmacist.

It might be argued that with somewhat unremunerative terms under N.H.S. it would be unreasonable to expect all work to be done by qualified staff. That depended on whether the contractor was content to continue to bear the responsibility of supervision, with the benefit of some extra remuneration, or whether such burden could better be borne by qualified labour at consequent higher cost. It was debatable, however, whether even with increased remuneration for N.H.S. work, and if sufficient qualified staff were available, any major change in existing staff arrangements would in fact be made.

Recruiting Sources

Unqualified staffs were usually recruited from:—(1) Apprentices or students who had failed to qualify; (2) juniors engaged with no intentions of qualifying; (3) Service compounders and apothecaries' assistants; and (4) apprentices or trainees who wished for a career as unqualified assistants. The question whether unqualified people should be employed, the nature of their duties, and their training, etc., had up to the present been entirely a matter for the employer.

In hospital pharmacy the employer was not a pharmacist and unqualified staff were classified according to duties performed. The Guild of Public Pharmacists had agreed that there was a place for the unqualified, and had a ratio of qualified to unqualified. On the Continent, unqualified dispensers had a recognised place.

There were two convenient sources of recruitment already available. Examinations in dispensing competence were conducted in the Services, and the Society of Apothecaries granted certificates to act as dispensers. It was unlikely that regulations would be framed to determine staffing arrangements in pharmacies, but some policy might be determined for hospitals and health centres.

The Society's Concern

If there were a need for unqualified labour in pharmacies, hospitals, and health centres, whether or not sufficient pharmacists were available for all work, the Pharmaceutical Society should concern itself with:—(1) The type or types of unqualified dispensers required; (2) their training; (3) the institution of examinations for them; and (4) the limitation of the number of unqualified persons employed according to (a) the type of establishment, and (b) the number of pharmacists employed. Should an endeavour be made to bring such examinations under the Society's control? The Branch Representatives' meeting had passed a resolution opposing official recognition of any but the Society's qualification. Mr. Meldrum urged the closest consideration of the problem lest some other body should seek and be granted powers to give a certificate to unqualified persons.

MR. STEWART, Glasgow, thought the Society had some obligation towards the unqualified, because the present regulations would create many such. Nine apprentices in his firm were leaving shortly to attend College, and it had been found impossible to replace them. For the next three or four years only a few entrants from the Services and those who would come for one year's training could be expected. The only alternative was to employ trainees as unqualified dispensers, and the Society would have some responsibility towards them. As a member of the consultative committee of the Careers Council, he had often to give advice to parents on the possibilities of pharmacy as a career. When parents considered

that their son or daughter would require to do three years at college, and a year's practical training, and weighed the expenses involved against those entailed in obtaining a qualification in medicine, they very frequently rejected the idea of pharmacy as a career.

Mr. G. Wilkinson, Motherwell, said the unqualified trainee had been forced upon the company businesses under war conditions. In his company trainees were given the same training (including a correspondence course) as articled apprentices. In his view the Society had made a mistake in insisting that, before being accepted as an articled apprentice, a new entrant must pass the first part of the examination. New entrants could be obtained if practical training were permitted to be taken first.

"Apprenticeship Dead"

Mr. Meldrum said conditions had changed; apprenticeship as they knew it was dead. Cases repeatedly reported to the Society revealed that apprenticeship was a form of cheap labour; that position had to be done away with. In future the student, having done a certain part of his academic training, would be in a position when doing his practical course to decide for himself whether he was getting a proper training. The labour formerly done by apprentices would have to be carried out by some class of unqualified labour.

Mr. A. Currie, Leith, said that there was an element of danger in recognising the unqualified. It would be better, he thought, if the Society were to make greater efforts to increase the number of apprentices so that in time there might be enough to carry on the profession.

Mr. R. S. Whitelaw, Anstruther, said the Privy Council visitor to the examinations in Scotland had suggested that young men and women who did well at school would be attracted more by medicine and the sciences than by pharmacy; this was because the Society's examination system was "flying the kite too high." Also, shop hours were too long and the majority of girls, who might otherwise have chosen to enter pharmacy, preferred an office career with a Saturday half-day.

Mr. J. C. Somerville, Edinburgh, said the first duty of the Society was to its members, not to the vested interests in pharmacy. He could remember when the services of a pharmacist could be obtained for £3 a week. It was a tribute to the educational policy of the Society that today the very people who had previously employed pharmacists at the cheapest possible rate, were now offering huge salaries. The difficulty in registering unqualified assistants was that it might open the door to exploitation by unscrupulous people; if there must be such qualifications, their recognition must be under the strictest of regulations. The handing out, selling and counter supervision of the sale of drugs were as important as the supervision of dispensing.

Mr. Meldrum said it was the unanimous finding of the Education Committee that a qualified person was just as necessary at the front counter as at the dispensing counter.

Mr. R. McCrone, Coatbridge, did not agree that the Society had flown its educational kite too high. If it were a question of education against remuneration, should pharmacists jeopardise their calling by reducing the standard of education to fit in with the remuneration? There was bound to come a time when the State would realise that pharmacists were people of a high educational level, to whom proper remuneration must be paid. Mr. Stewart said that the amount of money involved in qualifying was today so high that the recruits from the upper strata of the working classes would be almost nil. Mr. Meldrum said that today no deserving student had to forego a good education because of lack of money; there were ample Government grants to enable any responsible student to qualify as a pharmacist.

Education and Recruitment

Mr. A. Officer, Glasgow, asked Mr. Meldrum whether he thought the educational policy of the Society in the last fifteen years had had any detrimental effect upon the intake of apprentices. Mr. Meldrum replied that the Society's educational policy had not had a detrimental effect; there were twice the number of qualified people in pharmacy today, and he did not think that any employer could afford to employ more qualified labour. Nothing would be done in the matter of unqualified assistants that would be detrimental either to the Society or to the qualification. The problem would be examined in conjunction with the qualified labour question and nothing would be done without the fullest co-operation of everyone concerned.

MEDICAL ABSTRACTS

Radioiodine in Thyrotoxicosis. — Wil-ams ("Journal of the American Medical ssociation," April 16, p. 1064) has in-estigated methods of treatment of thyro-xicosis on 441 patients and concludes at the satisfactory treatments are ad-inistration of thiouracils and radioiodine, nd thyroidectomy. Radioiodine may be ed on any patient with the disease, but particularly useful for patients having xic reactions to thiouracils, or for those ho are not good surgical risks.

Depot Effect with Testosterone.—A able preparation of testosterone that per-its continuous slow absorption from the te of injection is described by Carlinfanti nd others ("Lancet," March 19, p. 479). he preparation is made by adding slowly, ith constant stirring, to a solution of gm. crystalline testosterone (m.p. 154.5° .) in 10 mils 96 per cent. ethyl alcohol o mils of an aqueous solution of alu-inium phosphate, 7 mgm. per mil. It has e advantage of reducing the frequency injections to one month or less.

Microwaves in Therapeutics.—Wakim nd colleagues, ("Journal of the American Medical Association," April 9, p. 989) find, om a study of the therapeutic possibili-es of microwaves, using a microwave iathermy machine equipped with an air-oled magnetron tube, that microwaves rovide a convenient and comfortable form heating for local application to tissues. he radiations increase the circulation rough the irradiated area, but should be ed with caution over tissues with im-aired circulation, high fluid content, or etallic implants.

Adrenolytic Action of D.H.O.180.—n adrenolytic action in man of dihydro-rgocornine (also known as D.H.O.180) in ddition to the established sympathicolytic ction has been recognised by Goetz and olleague ("Lancet," April 2, p. 560). he newly discovered property, the orkers point out, may prove of import-nce in the management of disturbances f the autonomic nervous system, particu-arly as the administration of other sym-athicolytic drugs has been followed by ypersensitivity to adrenaline. Though the rug suppresses and reverses the pressor esponse to adrenaline it does not abolish he cardioaccelerator, or, under the con-itions of the trials, the respiratory-stimu-ating effect of that hormone.

Undecylenic Acid in Psoriasis.—A pre-liminary report on the use of undecylenic acid administered orally to patients suffer-ing from psoriasis and neurodermatitis has been made by Perlman ("Journal of the American Medical Association," February 12, p. 444), to "spur research on this re-markable unsaturated fatty acid." The twenty-five patients treated showed im-provement, some obtaining permanent relief. An initial daily dose of 7.5 gm. was increased to 10 to 15 gm. in divided doses. Undesirable symptoms observed in-cluded nausea, and the authors suggest ad-ministering the drug in enteric-coated capsules.

Vitamin B_{12} in Anæmias.—Spies and others ("Journal of the American Medical Association," February 19, p 521) give the results of trials of vitamin B_{12} as a thera-peutic agent in twenty-one patients suffer-ing from nutritional or pernicious anæmia or sprue. They describe the compound as the most effective anti-anæmia substance known. It causes a marked hæmapoietic and clinical response, and relieves symp-toms of combined degeneration of the spinal cord. Dosage, by injection, varies widely—the limits being about 8 and 100 microgm. The compound has no effect on the leucopenia of infections, idiosyn-crasies due to drugs, idiopathic purpura, secondary or aplastic anæmias or leucæmia. The authors advise prescribing an excess of the vitamin and warn against using it with hog stomach and folic acid.

Adrenaline Cream in Rheumatism.—A 1-5000 adrenaline cream made with a vanishing cream base has been found by Moss ("Medical World," April 15, p. 244) to be a "valuable preparation for treating cases of chronic rheumatism where massage is indicated." A little of the cream is massaged firmly and deeply into the affec-ted muscles for a few minutes. An analysis of 106 patients treated during six months shows that their ages ranged from fifteen to eighty years, and their conditions in-cluded lumbago, fibrositis, migraine (pos-sibly due to fibrositis of the scalp) and periarthritis. Apart from early cases of osteo-arthritis, which do not respond to the treatment, there was one failure. All other cases had great relief after the first treat-ment, and were almost symptom-free after a few treatments. The drug was ineffective when incorporated in other ointment bases.

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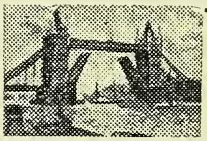

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OL. CLII JULY 9, 1949 No. 3620

Prospects for Proprietaries

s might have been expected, the annual eport of the Proprietary Association of reat Britain, whose membership is comosed of manufacturers of proprietary prearations, reflects some anxiety as to the ature for members' products in a country ith a universal "free" medical service. ike other organisations, the P.A.G.B. has rveyed the field of N.H.S., but has been ompelled to admit that a year's working not enough to enable a clear estimate to e made of its effects.

The problem for manufacturers has, if onfused, not yet become acute. Though any practitioners are refusing to presribe proprietaries when comparable offiial preparations exist, on the other hand there are reports of more proprietaries beg prescribed by some practitioners than itherto." Certain tendencies, however, ay give rise to forebodings in the minds f manufacturers if they continue. It is ommon knowledge that the Government seeking ways of effecting economies in .H.S., and if the use of official preparaions, where they exist, should be universlly insisted upon, and if at the same time rescribers were to be discouraged from rescribing other proprietaries for which o equivalents exist, the outlook for manuacturers would be gloomy indeed. That s not, perhaps, very likely to happen. What is more probable is a degree of offiial differentiation between proprietaries of lifferent types. The Minister of Health, nder pressure, no doubt, from the Chancellor of the Exchequer, is bound to do what he can to see that public money is not used to pay high prices for the branded versions of articles readily obtainable from any supplier of drugs and galenicals. But he is bound also, as we see it, to give encouragement to the type of researches (carried out to a very large extent in the laboratories of private-enterprise business concerns) that lead or may lead to advances in medicine. The patient is entitled to whatever offers him the best prospect of cure, and to deny the doctor the right to prescribe any medicament that holds out such a prospect is, when carried to its ultimate length, a denial of opportunity to those research laboratories. Unfortunate though it may be, the costs of conducting researches must be covered in the price of the successful proprietaries to which they may give rise. While nobody would consent to allow manufacturers to hold the public to ransom, it is important to appreciate that the price of a proprietary medicinal preparation must cover "overheads," which may include experiments that have produced no marketable result. Those researches have to be paid for whether they are conducted by a manufacturer from his own resources or by a Government department with public money. Moreover, an official formula sometimes fails to find favour, and it is always on the cards that, in the words of Xrayser (p. 37) "not for the last time has a medical man abandoned an official galenical in favour of a proprietary one." Another question arises when long-established proprietaries are considered. Many of them are the products of past researches. Some continue to hold a unique position and must be allowed to patients in need of them. Others have been officially adopted. In view of the changed circumstances of today there is a case for encouraging public-spiritedness by recompensing the prime manufacturer against loss on that score.

It would seem that the Ministry, in its economy policy, may be compelled to issue some sort of guidance to prescribers within the N.H.S. What will be the future for any proprietaries not allowable under

any such scheme of differentiation? Manufacturers must obviously be left to find a market for them outside the Service. However, as the report states, available statistics indicate that the public continues to be willing to buy "recognised standby remedies" for "transient ailments."

N.H.S. and the Size of Families

FROM being immersed in the National Health Service as a source of one's livelihood it is refreshing to turn to a publication in which the Service is regarded in a rather more long-term and philosophical light—that of its effect on population. To the Royal Commission on population the health services of the country represent a ten-page chapter in a 260-page report, and the implications of those services are matters different in kind from those practical, day-to-day aspects with which a pharmacist is normally brought into contact.

Medical care under N.H.S. places non-earning mothers and children on an equality for the first time with the earning members of the family. It also reduces the financial handicaps parents suffer by comparison with childless members of the community. Thirdly it enables medicine to be organised on a family rather than on an individual basis—a state of affairs previously true only of the well-to-do. Therefore, runs the implied argument, the National Health Service may have the important result of contributing to a larger family size, and "a community like ours, in which birth control is generally accepted, can only prosper or, in the long run, survive if its members think it worth while to have families large enough to replace themselves."

Turning from general to specific problems, the Commission recommends the following active measures to reduce the present proportion of 5-8 per cent. of all marriages that are involuntarily childless:—Public education, the development of facilities for clinical investigation and treatment, and the encouragement of biological and chemical research. The "public education" would take the form of instruction in coital technique, information about the fertile phase of the menstrual cycle, and the necessity for examining th husband no less than the wife wheneve there is failure to produce children. Fe tility clinics "on a regional basis as pa of the Health Service of the country should be encouraged and developed. T attract adequately qualified workers int this field scholarships might be provide The Commission recommends that the giv ing of advice on contraception to marrie persons who want it should be accepte as a duty of the National Health Servic "A clinic which embraced facilities fc advice on infecundity and on birth cor trol could develop naturally as the nee emerged to include pre-marital examina tions and other services of direct relevanc to family welfare."

Maternity and Child Welfare

Without going into great detail other wise than by reference to the larg measure of agreement among other exper bodies as to how it should be done, th Commission recommends that the mater nity and child welfare services of th country should be improved, and tha there should be a closer linkage betwee the general medical practitioner, clini and hospital, midwife and health visitor It is considered that there has been a undue emphasis recently on the danger of childbirth, and this should be lessened

Every practicable means should at th same time be taken to overcome the diffi culties of providing anæsthesia or anal gesia for all mothers who want them.

The underlying principle of all the recommendations is the hope that "in al relevant branches of policy and adminis tration the population factor will be take into account," and in this connection i may be claimed that the whole conceptio of the National Health Service, whethe or not it was originally regarded in tha light, was a "taking into effect of the population factor." Whatever effects the Health Service has had or can have on population quantity, there can be littl doubt that N.H.I. and its successor have been one of the most prominent contributory factors in the improved health of the community in the past quarter-century.

OVEL METHODS OF ADMINISTERING DRUGS

By J. H. Wilkinson, B.Sc., Ph.D., F.R.I.C., M.P.S.

THE past two decades have been notable for a series of remarkable advances in the production of new ugs with specific actions against microganisms, and in hormone therapy. These velopments have directed the attention clinicians toward the problem of enring that the drug reaches its site of tion, and, in order to achieve this aim, is necessary for the drug to be introced in a form in which it can be transrted in an active state to the required ea. Secondly, in the treatment of bacrial infections, the local concentration ust be sufficiently high to counter the vasion. In recent years, much work has en carried out to achieve these ends d at the same time to minimise the scomfort to the patient.

halation of Aerosols

The extremely large number of alveoli, ed by capillaries having the thinnest lls in the body, provide the lungs with surface area estimated at about 700 sq.

This consideration has led many orkers to examine the potentialities of the g surface as a means of introducing ugs to the body. Solutions of penicillin, lphonamides, promin and streptomycin ve been dispersed as aerosols for inhalaon in many bronchopulmonary diseases, equently with excellent results. The thor is indebted to Dr. H. B. Hewitt r access to clinical data showing that an ective level of penicillin in the serum n be maintained for a period varying tween three and six hours after adminration of the drug by aerosol inhalaon. This observation has been confirmed Prigal and his colleagues[1], who replaced e jet of oxygen usually used to vaporise e solution of the drug with steam. The mbined steam generator and aerosoliser nployed by these workers embodies a mber of advantages, chief of which are mpactness and portability[1,2]. A comarison of the efficiencies of penicillin abrption by inhalation of aerosols under rious conditions including open inhalaon, the use of a tent and a special breathg box, showed the breathing box method be the most economical. In any closed stem, propylene glycol was preferred water as solvent, since condensation of e medicament on the wall of the tent or ox was much less with that compound.

Whilst the administration of penicillin or other drugs by the aerosol technique is rather wasteful, it is of considerable value in the treatment of seriously ill patients who might be distressed by frequent intramuscular injection. The psychological effects produced by a series of painful injections in small children may render them difficult patients for a long time, and in such cases the administration of drugs by inhalation may be preferred.

Jet Injection

A new development in injection technique was announced in 1946, when Figge[3] described a method which dispensed with the necessity for a syringe and needle. The "jet injection" is based upon the fact that extremely high pressure jets are capable of penetrating the human skin almost painlessly. The sterile solution for injection is placed in a metal tube closed at its lower end with a rubber plug and with a fine hole at the other end. A spring is so arranged that it can be released against the rubber plug, thus forcing out the solution at high pressure.

Hingson and Hughes[4] published the results of clinical trials employing jet injection. Of a group of 118 patients, sixty experienced no pain; fifty-one felt mild pain, but much less than that produced by a needle; five had very slight pain associated with minor superficial skin cuts, subsequently shown to be due to errors of technique; only two felt more pain than that associated with a needle. The two workers also found that children did not fear jet injection so much as an ordinary needle, and for the daily administration of drugs such as insulin the jet method was preferred. Disadvantages are the comparatively high cost of the instrument and the necessity for having different inert metal containers for different active drugs. In addition, there is the possibility of injury to the subcutaneous tissues from high pressure jet injections. Moreover, the injected material is relatively widely dispersed, though this may be desirable when using certain stimulant drugs.

Many of the naturally occurring hormones, such as testosterone, œstradiol and corticosterone have recently been introduced to the armoury of the physician for use in hormone-deficiency diseases. Such replacement therapy requires the regular

administration of small amounts of the drug, and a very convenient means of achieving this object was developed in veterinary practice by Deanesly and Parkes, who implanted pellets of œstrogens in cattle to study the effects on milk yields. In 1938, Bishop[6] applied this procedure to clinical medicine, and since then numerous publications have testified to its value.

Advantages of Depôt Therapy

The use of depôt therapy allows slow and continuous absorption of the hormone over a long period, thus eliminating the necessity for repeated injections and adding greatly to the freedom of the patient. Several workers have examined the mechanism of absorption, and the general conclusions are that the rate of absorption from disc-shaped pellets is more regular than from cylindrical pellets, that esterification of the hormone generally retards the rate of absorption, and that during the later stages of the life of the pellet the daily rate of absorption decreases progressively. Depôt therapy may also be established by injecting a suspension of the crystalline hormone through a relatively wide-bore needle. The effects of the injection of crystals are similar to those of implantation, except that the implantation gives its effect over several months, whilst injected crystals persist for only a few weeks. In general, hormones should be administered by daily intramuscular injection for a few weeks before commencing depôt therapy. By adopting this procedure the physician obtains information on the amount of hormone to be implanted, and is also enabled to assess whether improvement in the clinical condition of the patient necessitates reduction of the dosage.

In Addison's disease, pellets of deoxycortone acetate may be implanted or the drug may be injected in crystalline suspension. Caution must be exercised to avoid overdosage, and an adequate intake of sodium chloride must be maintained. Owing to the risks of overdosage, with consequent increase in blood volume, thereby placing an additional strain on the heart, depôt therapy with deoxycortone acetate is not recommended for elderly patients. Testosterone propionate depôt therapy has found application in eunuchism, Simmond's disease and related disorders, and has also been used experimentally in the treatment of cancers of the female genitalia, though the results so obtained have been equivocal. Pellets progesterone and œstradiol are frequen implanted to combat threatened aborti and climacteric deficiency symptoms spectively.

Considerable difficulty has been expe enced in the application of depôt thera to insulin administration, but early t year Vargas[7] reported that adequate co trol over a period of about 100 days w maintained with implants of protamir zinc-insulin and cholesterol.

In the treatment of local allergic co ditions antihistaminic drugs applied in t form of a cream have given beneficial r sults, and this form of treatment of ur caria, sulphonamide rashes, etc., is w established. In addition, certain hormon such as deoxycortone acetate, are read absorbed through the skin, particular when applied in benzyl alcohol.

Sublingual Therapy

Another comparatively recent innov tion is the use of the sublingual rou The lining of the sublingual area is high vascular, and absorption of hormones ar other drugs proceeds readily from table placed under the tongue. Examples substances suitable for use in this way a methyltestosterone, ethinylœstradiol ar deoxycortone acetate. The new ant asthmatic, isopropyl*nor*adrenaline sulphat is another drug recommended for intr duction by this route. This mode of a ministration enables the patient to contr his symptoms, if need be, unaided.

The above examples are a selection some of the interesting developments th have been reported during the past fe years to supplement the established mod of administration of drugs. In some cas a new route has achieved more than or end. What better example is there tha that of penicillin chewing-gum in th treatment of gingivitis, where not onl does the drug reach the infected are but the gums are massaged automaticall —a highly desirable effect.

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[2] Prigal, *ibid.*, 1946. 131, 308.
[3] Figge, "American Practitioner," 1947. 1, 46
[4] Hingson and Hughes, "Current Researches i Anæsthesia and Analgesia." 1947. 26, 221.
[5] Deanesly and Parkes, "Proceedings of the Roy Society" B. 1937, 124, 279.
[6] Bishop, "British Medical Journal," 1938. 1. 43
[7] Vargas, "Lancet," 1949. 1. 598.

LABORATORY ANIMAL HUSBANDRY

How uniform, healthy animals are produced and maintained for use in biological laboratories

BIOCHEMICAL techniques, and the isolation of vitamins and hormones, necessitate the use of laboratory imals. In a typical biological assay a oup of animals is treated for a short time th a substance suspected of possessing certain biological activity; the animals e autopsied at the end of the experimen- period, and the results obtained from aduated doses of this substance noted, th any significant organ weight changes. Outside biological laboratories, perhaps, tle is understood of the routine handling the animals. In the present notes rats ll be taken to illustrate the general prin- oles of the comparatively new technique of oratory animal husbandry. Much work s to be done before they are even selec- d for treatment. Study of a typical aboratory record" such as may be seen y day in any biological research station, ll illustrate the point. Details and rangements may differ from one labora- ry to another, but the same basic prin- oles are common to all.

LABORATORY RECORD

bstance under test: Q.3.
ength of solution for injection: 2.5 mgm. in .0 c.c. of water (solution to be made fresh each day for injection).
riod of treatment: 7 days.
jections: Twice daily; administered subcutane- ously, at 9.30 a.m. and 5.30 p.m.

ouping of nimals	Treat- ment	Average body weight of group. in gm. at		Total amount of substance injected over 7 days.
		Start	Finish	
1-10	0.5 mgm. (0.2 c.c. of solution).			7 mgm.
11-20	1.0 mgm. (0.4 c.c. of solution).			14 mgm.
21-30	1.5 mgm. (0.6 c.c. of solution).			21 mgm.
31-4	2.0 mgm. (0.8 c.c. of solution).			28 mgm.
41-55	Control.			

The table summarises the plan of treatment and general arrangement, and gives the average body weights of the animals in each group at the commencement and termination of the whole experiment. Body weight changes are most important. Depending upon the equipment and facilities to hand, the first group of animals (1-10), may be included in one cage, though it is better to subdivide the group into two lots of five animals, preferably in two cages. All of the rats have to be fed each day, either with chunks of compressed food or with a basic and standard diet. Their drinking bottles have to be replaced with clean and fresh water at the time of feeding. Every second or third day a complete change of cage, wood wool and sawdust has to be organised. The fresh cages must have been through a strong antiseptic bath both to ensure that no infection has accidentally been transferred from one group to another in, perhaps, other parts of the animal house. Careful work of this kind constitutes the mainstay of all animal biological tests. If such precautions were not adopted the value of experimental results would be considerably impaired.

Marking System

Each animal selected for the group has to be marked, so as to distinguish it from others at the time of injection, and a remark upon the method of marking may not be out of place. Numerous mechanical punches, stamps, and other devices have been produced for the purpose, but by far the easiest, quickest and most reliable method is also the simplest. Under this method each rat has a tiny snick made in the ear with a sharp pair of scissors. The snick does not harm or hurt the animal in any way. For a group of five animals the ear-marking key is usually as follows:—

Right ear, one snick.....	abbreviated as	R.1.
Left ,, ,, ,,	,, ,,	L.1.
Right ear tip off	,, ,,	R.Ø
Left ,, ,, ,,	,, ,,	L.Ø
Both ears, unmarked		—

The first cage of five animals, as used in the experiment forming the subject of the laboratory record above, might thus appear as in the table overleaf.

Having reached this point in the survey, it is necessary to indicate other considerations that have to be taken into account:

The usual strain of rats used in biological investigation is the white Wistar albino. The body weights of the fifty-five animals required in the tests under consideration should agree to ± 2 gm., otherwise com-

RECORD OF WEIGHT CHANGES

Numbers of animals and ear-marking		Body weight in gm. each day.						
		1	2	3	4	5	6	7
1	R.1							
2	L.1							
3	R.Q.							
4	L.Q.							
5								
Average body weight changes daily.								

parative observations at a later stage would be of small value. To select the fifty-five animals may, however, mean examining several hundred. Moreover, they should all be of the same sex, since responses to treatment may vary considerably between male and female.

Securing Uniformity

Let it be assumed the initial body-weight requirement is 60 gm. ± 2 gm.. The fact they they are all available at the right time conceals another aspect of laboratory animal care. From the time the animals were first born to the time of their present selection, every attention has been paid them individually to see that all mature under standard conditions of weaning and separation, feeding and living. The whole animal house is kept at constant temperature, since variations are liable to influence results of experiments. Any animals that exhibit signs of illness are separated from the rest in individual cages and isolated for observation and treatment. Rodent diarrhœa is the most troublesome condition, since it rapidly spreads, infecting hundreds of healthy animals and giving rise to many setbacks. An example will illustrate the reality of the difficulty. For tests on a certain material a group of rats had been selected, separated, weighed, marked and caged ready for use in an experiment. At the conclusion of the period of assay, and after autopsy and organ-weight changes had been noted, it was apparent that the whole test was valueless. Increases in the weight of the seminal vesicles were found in some animals, decreases in others, no change in a third group, abnormal growth weights in others. In fact, it was doubtful whether the mate ial under test possessed any biologic activity. A check was undertaken to t and find out if any error had occurr that might account for the apparent inac vation of the material. The experiment laboratory procedure was found quite order, and it thus became apparent th the trouble lay in the animals themselve Further inquiry revealed that, about week before the commencement of the e perimental assay, a mild attack diarrhœa had broken out among a few the animals. They had quickly recover and been reintroduced among t normal healthy animals in order to ma up the total required in the assay. T mixture of healthy animals with recuper tive or convalescent ones had been t reason for the irregular organ weig responses observed at the end of the exper ment. Already the departure from stri routine had caused the loss of a valuab preparation, the product of much fractio ation and careful work. Another group ten healthy animals was taken, prepar and treated for the same period of tim They showed a uniform increase in orga weights throughout, as compared to the te control animals of the same body weig used at the same time, thus confirming th observation.

Towards Standard Diets

The facts noted illustrate the importanc to the laboratory worker of knowing th animals with which he may have to dea and the value of adhering without excep tion to rigid standards of health. Th adoption of standard diets by biochemic investigators, and universal acceptance c agreed conditions of breeding, mating an separating, is to be urged. It would mea that experimental results in Great Britai would be comparable scientifically wit similar experimental work proceeding i the United States or elsewhere.—*R. A. C.*

Single-use Feeding-bottles. — A flex ible, bag-like infants' feeding-bottle o transparent plastic (polyethylene) materia is being marketed in the United State under the name Shellie Nurser by Shell mar Products Corporation, Mount Vernon Ohio. The bottle is unbreakable, steril when issued (interchangeable nipple, bottle and nipple-caps are resterilised by th mother) and thrown away after use. I is claimed that, during trials, babies too full feeds more readily and quickly tha when rigid bottles were used.

A CHEMIST HIS OWN SHOPFITTER

EVERY showcase, shelf and counter in the pharmacy of Mr. N. A. Nicholls, M.P.S., 25 Grosvenor Road, Tunidge Wells, Kent, was made by Mr. icholls himself. Although the work was mpleted before the war, Mr. Nicholls oints out for the benefit of any other harmacist who may wish to make his own tings that hardwoods are obtainable toay. The intention is therefore capable of eing carried out, especially by the method e adopted.

This was first to design the whole job, rawing a dimensioned plan, and then to ecide on the section to be tackled first. he fitting made, an early-closing day was hosen to rip out the old one and fix in he new. In this way the cost was spread ver a period and the work done as and hen one felt like it, with no dislocation the business. The requisite wood was btained for each section as its turn came long. Mr. Nicholls considers the extra rain of present-day conditions makes the omplete relaxation of such an occupation worthwhile use of one's spare time.

At the Grosvenor Road premises the harmacy was poorly fitted in cheap mahoany when taken over, as well as being ld-fashioned and dirty. "The whole job took two years of spare time," writes Mr. Nicholls, "and I enjoyed seeing the scheme taking shape, while all the while the interest and appreciation of customers was most encouraging. As regards results, the first year showed a doubled turnover, and that progress has been steadily maintained, discounting the war years' boom."

A PHARMACIST'S ANTHOLOGY

PRESENTLY, Paul [Morel] was bidden call upon Thomas Jordan, Manufacturer of Surgical Appliances at 21, Spaniel Row, Nottingham. Mrs. Morel was all joy. "There, you see!" she cried, her eyes shining. "You've only written four letters, and the third is answered" . . . Paul looked at the picture of a wooden leg, adorned with elastic stockings and other appliances, that figured on Mr. Jordan's notepaper, and he felt alarmed. He had not known that elastic stockings existed. And he seemed to feel the business world, with its regulated system of values, and its impersonality, and he dreaded it. It seemed monstrous also that a business could be run on wooden legs. — *From "Sons and Lovers," by D. H. Lawrence.*

CORRESPONDENCE

Resale Price Maintenance

SIR,—Writing as a chemist who was in business on his own account fifty-two years ago, I am dismayed by the report of the Committee on Resale Price Maintenance. It seems incredible that any responsible body should wish to put the clock back to 1896-97, when price-cutting was rife, profits on some items were nil and wages were in keeping with this deplorable state of affairs. I think there is no doubt that an inevitable and early result of implementing this report would be a serious deterioration in the wages paid to those concerned in the distribution of proprietary articles, and surely this Government, of all others, should refuse its support to a scheme destined to have that result. The only people (in the trade) likely to welcome the findings will be the co-operative societies and greedy "cutters" anxious to obtain their competitors' trade but lacking the efficiency to do so by legitimate means. I wish the P.A.T.A. every success in any efforts it may make to veto the proposals; they will, no doubt, have the full support of other trade associations.

Leicester. F. T. WILBY.

Contractors' Views on Pricing

SIR,—The CHEMIST AND DRUGGIST is to be congratulated on its issue of June 25 containing, as it does, a wonderfully comprehensive selection of articles dealing with the National Health Service, and giving the interested pharmacist a chance to appreciate the magnitude of the problems involved, even though, perhaps, not all contractors agree with the answers. With regard to replies by the Accountant General, Ministry of Health (Mr. H. H. George), as reported on p. 850, these may have been correct so far as they relate to the pricing of prescriptions up to the end of January 1949, but the case is certainly different at the present moment—February to May priced on January average (with adjustments calculated on a very small cross section fully priced?) and, commencing with June 1949, 20 per cent. only of those under 5s. net cost priced to give a contractor's own average. Mr. George, who states that this was done with the agreement of the profession, should have attended the Conference of Pharmaceutical Committees on May 25, 1949 (when delegates were informed that, as the Central N.H.S. (Contractors) Committee would not agree to a 5s. split, the Minister took th decision); if he had been at that Confe ence he would have been emphatical informed that this was not the case. Sim larly, so far as he knew, "the chemis had raised no objection." Three meetin were held in the West Sussex Area, at a of which the attitude of the contracto towards averaging in any form was ve plainly in the negative, with great emph sis on disagreement with the latest metho of pricing. The resolution passed at th Conference showed that the majority contractors raised great objections to th present method of pricing.

E. J. W. CUER,
Secretary, West Sussex
Worthing. *Pharmaceutical Committe*

C. & D. DISPENSING PRICE LIS

THE following price changes that becam effective during June should be noted. Th drug index for the month was 172.7.

Cost d.	Cost per	Item	Dispensing price 4 oz. s.	4 oz. d.	1 oz. s.	1 oz. d.	1 dr s.	1 dr d.
37	lb.	Aether tech. 16 fl. oz. 3/7	1	0	0	3½	—	
66	lb.	Cera alb. in massa	2	5	0	8	0	1
78	lb.	Cera alb. in plac.	2	9	0	9	0	1
66	lb	Cera flav. exot. ..	2	5	0	8	0	1
30	lb.	Chondrus ..	1	1	0	4	—	
27	lb.	Emulsio paraffin. liq. c. agar ..	1	0	0	3½	—	
27	lb.	Emulsio paraffin. liq. et kaolin ..		1	0	4	—	
25	oz.	Ergota præparata S.1. (5)	—		3	8	0	7
180	lb.	Ext. ergot. liq. S.1. (5)	6	5	1	11	0	3
210	lb.	Ext. ergot. liq. '14 S.1. (5)	7	7	2	3	0	4
114	lb.	Lin. methyl. salicyl. co. ..	4	7	1	3	0	2
33	lb.	Mucilago acaciæ	1	5	0	5	—	
10	oz	Tinct. guaiaci ..	—		1	6	0	3
30	lb	Ung. dithranolis	1	1	0	4	—	
165	lb.	Ung. methyl. salicyl. co. ..	5	10	1	8	0	3
70	lb.	Ung. methyl. salicyl. co. dil. ..	2	6	0	8	0	1½
56	lb.	Zingib. Jam. pulv.	2	0	0	7	0	1
36	lb.	Zingib. Afric. pv.	1	4	0	5	0	1

ESSENTIAL OIL IMPORTERS

E annual meeting of the Essential Oil porters' Section of the London Cham- of Commerce was held on June 29, . T. J. McArthur in the chair. MR. J. VEY, Ministry of Food, gave a sum- ry of the general situation regarding the ential Oils Control. He referred in par- ular to the stocks of lemon and berga- t oils which were still held by the Con- l because of the excessive applications importations during 1947-48, and said t it would not be possible to de-scheme se oils until the stocks had been taken by users. A fair proportion, however, d already been disposed of and there re reasonable prospects of clearing the lance, perhaps, by the end of this year, early in 1950. Referring to arrange- nts which had been made for the im- rtation of peppermint oil (*M. piperita*), explained that the authorities had done ir best in the existing dollar situation. was, however, unlikely that the stocks rchased would meet full requirements. e position was also difficult in the case *arvensis* oil, pending further negotia- ns with the Brazilian authorities.

airman's Report

In presenting his report THE CHAIRMAN d that the section had continued to be presented on the Essential Oils Advisory mmittee by Messrs. Wheeler, Ennever, aumann and Evans, and expressed anks to them for the work they were ing. It appeared that the Control uld go on indefinitely for oils which me from hard-currency areas, but it was matter for disappointment that lemon, rgamot and mandarin oils had not yet en removed from the scheme. The main rrier to decontrol was the large stocks hich had accumulated as the result of avy rejections by users. Until recently, ers had been placed in considerable diffi- lties by the absence of any information the present and future position of these ls. The chairman said that he under- ood that strong representations had been ade to the Control Authorities by cer- in users' organisations. Clearly it would ave been against the interests of users to pply for and take up large stocks at a me when world prices were falling, and ith the prospect of the oils being de- hemed within a short time. The matter ad been carefully considered by the Con- ol Authorities with the result that for lemon and bergamot oils an alteration was made in the allocation procedure.

Regarding the arrangements which had been made for the supply of American peppermint oil, the chairman said that owing to the difficulties involved in obtaining goods from dollar areas it was impossible to secure anything like sufficient quantities to meet the heavy demand. Authority had been given, however, for the purchase of a limited quantity subject to the understanding that the oil so imported would be used only for (a) pharmaceutical purposes in the home and export trades, and (b) incorporation in other products manufactured for export. This was perhaps the most reasonable arrangement under the circumstances and users requiring supplies of American peppermint oil had been asked to give a signed undertaking that the oil would be used only for these two purposes.

Last year the Section had given its support to the setting up by the British Standards Institution of a British national committee to examine proposals for the establishment of internationally-agreed standard methods for the analysis of essential oils. Subsequently the B.S.I. had set up a technical committee to prepare a British standard for methods of test and also to act as the British National Committee. The chairman of the Section and Mr. C. Bush had been appointed to this committee.

Transport Difficulties

Further consideration had been given to the attitude of the Railway Executive in refusing to accept essential oils in tins except under damageable goods note conditions. The Section's representations on this matter had been supported by the Ministry of Food, which had done all it could to convince the railways that the tins were sound in every respect, but the railways had remained adamant and had refused to meet any claims for loss in transit.

Further attention had been given to the question of the high rate of freight on essential oils shipped from Italy to the United Kingdom. The main cause of complaint in this connection was the rate of 2 per cent. *ad valorem* which applied to oils of a value exceeding £3,000 per ton. The shipping line concerned recently had decided to abolish the *ad valorem* rate entirely. The position now was that the existing package rates for cases and the drum rate would be applied to all essential oils.

STOCK EXCHANGE PRICES

Quotations are the average for the days stated.

£1 unit unless otherwise stated	May 30		June 30	
	s.	d.	s.	d.
Albright & Wilson, ord., 5s. ...	30	0	28	9
Allen & Hanburys, prefd. ord. 7% cum.	32	6	30	0
Amber Chemical, ord., 2s. ...	7	0	6	3
Amber Chemical, 5% cum. pref.	25	0	23	9
Ascotts Pharmacies, ord. stock, 5s.	5	0	5	0
Aspro, ord. stock, 5s.	22	6	18	9
Beecham Group, defd., 2s. 6d. ...	15	0	12	0
Beecham Maclean Holdings 4% red. cum. pref.	21	0	20	7½
Boake, Roberts, ord., 5s. ...	32	6	31	3
Boots (Eastern) "A" pfd. 6% cum.	31	0	30	0
Boots (Western) "A" pfd. ord. (7% non-cum.)	36	6	35	0
Boots Pure Drug, ord., 5s. ...	53	6	48	0
Borax Consold., defd. ord. stock	53	0	50	0
British Alkaloids, ord., 1s. ...	4	9½	4	0
British Chemicals & Biologicals, 4% cum. red. pref.	21	0	20	9
British Drug Houses, ord., 5s. ...	7	3	6	9
British Emulsifiers, 2s.		9		9
British Glues & Chemic., ord., 4s.	19	6	18	0
British Industrial Plastics, ord., 2s.	4	9	4	0
British Optical & Prec. Eng., 5%	94½%		92½%	
British Oxygen Co., ord. stock ...	96	0	91	0
British Xylonite Co., ord. stock	80	0	70	0
Brotherton & Co., ord.	21	0	20	0
Burt, Boulton & Haywood, ord.	27	9	25	0
Bush, W. J., & Co., ord. ...	80	0	77	6
Camwal, ord.	20	9	20	7½
Cooper, McD. & Robertson, ord.	30	0	27	6
Cow & Gate, ord. stock, 1s. ...	2	9	2	3
Cow, P. B., & Co., ord. stock, 4s.	5	6	4	1½
Crosfield, J., & Sons, 5% cum. pre-pref.	26	6	25	0
Cussons, Sons & Co., ord. stock 2s.	17	0	15	6
Distillers, ord. stock, 4s.	26	9	25	3
Dubarry Perfumery Co., ord., 1s.	4	0	2	9
Dunlop Rubber Co., ord. stock ...	63	0	62	0
Energen Foods Co., ord., 2s. ...	10	3	9	9
Eno Proprietaries, 5½% cum. pref.	23	6	23	1½
Eucryl, stock, 2s.	4	9	4	9
Evans Medical Supplies, ord. stock	42	0	38	9
Field, J. C. & J., ord., 10s. ...	29	3	27	6
Fisons, ord. stock	47	0	44	0
Fisons, 4½% cum. pref.	24	3	22	0
Galloway, P. H., ord., 2s. ...	4	0	3	6
Gillette Safety Razor Co. shares (no par value)	$46.00		$43.50	
Glaxo Laboratories, ord. stock, 10s.	450	0	350	0
Glaxo Laboratories, 8% cum. prefd. ord. stock, 10s.	19	9	19	0¾
Gossage, W., & Sons, 5% 1st. cum. pref.	26	3	25	0
Greeff-Chemicals Holdgs., ord., 5s.	12	9	11	6
Griffiths Hughes Proprietaries, ord.	21	0	18	1½
Hampshire, F. W., stock, 5s. ...	81	0	70	0
Hirst, Brooke & Southon, ord. 4s.	4	10½	4	6
Horlicks, stock, 5s.	28	6	26	10½
Hovenden, R., & Sons, 7% cum. "A" pref.	27	3	26	3
Idris, "A" ord.	38	0	38	9

£1 unit unless otherwise stated	May 30		June
	s.	d.	s.
Ilford, ord. stock, 5s.	27	6	24
Imperial Chemical Industries, ord.	46	9	44
Imperial Chemical Industries, 7% cum. pref. stock	35	0	33
International Sponge Importers, ord. stock, 5s.	4	6	3
Kent, G. B., & Sons, 5% cum. ptpg. pref., 12s. 6d.	15	6	15
Kershaw, A., & Sons, ord., 1s. ...	1	3	1
Kleeman, O. & M., ord. stock, 1s.	11	0	10
Laporte Chemicals, ord. stock ...	19	6	19
Lever Brothers & Unilever, ord.	46	3	45
Lewis & Burrows, ord. stock ...	29	6	30
Lewis & Peat, ord., 1s.	1	6	1
Liebig's Extract of Meat, ord., £5	280	0	285
Macleans, 4% red. cum. pref. ...	21	3	20
Mellin's Food, 6% cum. pref. ...	6	3	6
Milton Antiseptic, ord., 10s. ...	20	0	20
Mono Containers, 5s.	15	9	15
Monsanto Chemicals, ord., 5s. ...	56	0	50
Pears, A. & F., 5% deb. stock, irred.	131%		130
Pest Control, ord., 5s.	8	1½	8
Potter & Clarke, ord., 1s. ...	3	0	2
Reckitt & Sons, ord. stock ...	112	6	101
Rolls Razor, prefd. ord., 10s. ...	23	9	21
Sangers, ord. stock, 5s.	31	0	28
"Sanitas" Trust, ord., 10s. ...	27	0	26
Savory & Moore, 5½% 1st red. cum. pref. stock	23	6	22
Sherley, A. F., & Co., 8% cum. prefd. ord.	23	0	22
Smith & Nephew Associated Cos., ord., 4s.	18	3	15
South African Druggists, ord., 5s.	16	0	13
Southalls (Birmingham), stock, 5s.	42	0	38
Spa Brushes, ord., 2s.	4	3	3
Sternol, 8% cum. ptpg. prefd. ord., 10s.	13	0	8
Stevenson & Howell, ord. stock, 5s.	25	0	25
Taylors, Cash Chemists, London, 6% cum. pref.	28	6	27
Taylors, Cash Chemists, Trust, 6% cum. pref.	28	6	27
Taylors Drug Co., 7% "A" cum. pref.	32	6	31
United Glass Bottle, ord. stock ...	74	6	71
Veno Drug Co., 12% cum. prefd. ord.	35	0	27
Virol, ord.	74	0	72
Viscose Development Co., ord. stock, 5s.	10	6	9
Vitamins, 1s.	5	0	4
Wesley, Harold, 5s.	14	6	11
Whites (Timothy) & Taylors, ord., 5s.	35	6	33
Whites (Timothy) & Taylors, 7½% cum. pref.	37	9	36
Wright, Layman & Umney, 7% cum. pref.	31	0	30
Yardley & Co., ord., 4s.	58	6	57
Yardley & Co., 2nd pref. (cum.)	23	6	23

TRADE REPORT

ot quotations for pharmaceutical chemicals represent the prices for wholesale quanti-s of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

8 Essex Street, W.C.2, July 6

IE principal feature in the PHARMACEU-AL and FINE CHEMICALS market has en the announcement of higher prices OPIUM ALKALOIDS and SALTS for the me trade. Makers' raw material costs ve been rising for some time, since the evious adjustment in prices in 1946. port rates for these products are un-anged. In other directions the market fairly steady, although what minor anges have occurred in pharmaceutical oducts have been in an upward direction flecting the pressure of increased costs production. However, following the re-nt fall in prices of ETHYL and BUTYL COHOLS, reductions are announced in a mber of other solvents, plasticisers and termediates derived from these two aterials. Prices of D.D.T. have been re-ced one penny per lb. from July 1, mak-g the new rates for this product from . 1d. (10 tons and over) to 3s. 7d. per (1-cwt. lots). A good export inquiry s been received for D.D.T. and other secticides. Activity in BOTANICAL RUGS continues on a low level. In the sence of any appreciable inquiry for ASCARA SAGRADA quotations show a ther wide divergence, with some trade rcles taking the view that any tighten-g up of dollar saving might result in king this and other articles of American igin off open general licence. During e past week there has been further in-iry for ERGOT but there are no spot or rward offers. Higher prices are asked r American PODOPHYLLUM on the spot. SPICES, a firmer market is quoted for nzibar CLOVES and both African and est Indian GINGER. GUM ACACIA is arer on spot and shipment quotations ve increased from 58s. 6d. to 61s., c.i.f. ne ESSENTIAL OILS markets are quiet and eady. CITRONELLA is a firmer market, wever, with Ceylon quoted at 4s. 9d. per . spot; there are still no firm offers of va oil.

.S. Drug and Chemical Report

New York, July 1

FFERINGS of MENTHOL from Shanghai for e first time in several weeks, together th the lack of consumer demand here, sulted in cuts in the prices for this ticle. The new inside price is $10.75 per ., compared with $11.00 a week ago. It stated that the offerings from Shanghai ere for June-July shipment at $10 per ., and that exporters there were seeking ds for the new-crop material for August ipment. Meanwhile, there is little interest in menthol on the spot market and it is reported that business could be done at $10.50 per lb. It is understood that purchases of CAMPHOR TABLETS, which normally are in substantial demand at this time of the year, are much smaller. Some articles on the CRUDE DRUGS market display a stronger tone in spite of small demand. During the past few days, STROPHANTHUS has been marked up by 35 cents per lb. to $2.60. ERGOT is also in a strong position at the present time and a 25 cents. per lb. advance (to $1.60) was recorded during the past week; in the meantime, it was announced that the Food and Drug Administration had detained more than 100 bags of this article. Drugs imported from China are said to be displaying an easier tone following the resumption of menthol offerings from Shanghai. While European botanicals are expected to be dearer this year, the prices paid for domestically-collected items are likely to be lower. DANDELION ROOT, BALSAM PERU and HENBANE LEAVES remain in a highly-competitive position despite recent reductions in price; trading in the spot market for most articles remains on a hand-to-mouth basis. Activity on the ESSENTIAL OILS market remained on the low side generally, but CITRUS OILS were moving out in good quantities to the soft-drink industry. The present tight conditions in LIME are expected to ease with the arrival of new-crop produce within the next few weeks and prices are likely to be adjusted downward. Easier markets have developed for CORIANDER, which is now at $32 per lb., and for SPEARMINT ($2.60).

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97 1/4—97 3/4
Amsterdam ...	Florins to £	10.68—10.70
*Bombay	Shillings to rupee	1-5 15/16—1-6 1/16
Brussels	Francs to £	176 1/2—176 3/4
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	10.68—10.70
Dutch West Indies	Florins to £	7.59-7.61
*Hong Kong ...	Shillings to $	1-2 25/32—1-2 15/16
Lisbon	Escudos to £	102
Montreal	Dollars to £	4.02 3/4—4.03 1/4
New York ...	Dollars to £	4.02 3/4—4.03 1/4
Oslo	Kroner to £	19.98—20.02
†Paris	Francs to £	1.096—1.098
Rio de Janeiro ...	Cruz to £	75.4416
*Singapore ...	Shillings to $	2-4—2-4 1/4
Stockholm ...	Kronor to £	14.47—14.50
Zurich	Francs to £	17.34—17.36

* Free market rates

† Forward francs 1 fr. either side par per month

Pharmaceutical Chemicals

CHLORAMINE.—B.P. grade is from 2s. 5d. to 2s. 9d. per lb. and 98 per cent. technical at 2s. 2½d. to 2s. 5d. per lb., according to quantity.

CHLOROXYLENOL.—B.P. quality is quoted at 5s. 6d. per lb. in 1-cwt. drums.

CODEINE.—Increased rates per oz. from July 1 are as follows:—ALKALOID, ½-oz., 60s. 3d.; 1-oz., 57s. 9d.; 2-oz., 56s. 3d.; 3-oz., 55s. 6d.; 4-oz., 55s. 3d.; HYDROCHLORIDE, ½-oz., 53s.; 1-oz., 50s. 6d.; 2-oz., 49s.; 3-oz., 48s. 3d.; 4-oz., 48s.; PHOSPHATE, ½-oz., 46s. 9d.; 1-oz., 44s. 3d.; 2-oz., 42s. 9d.; 3-oz., 42s.; 4-oz., 41s. 9d. Prices of HYDROBROMIDE and IODIDE as alkaloid; and SULPHATE as hydrochloride.

CREOSOTE.—B.P. quality, ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per lb.

DIAMORPHINE.—Increased rates per oz. from July 1 are as follows:—ALKALOID, ½-oz., 63s. 6d.; 1-oz., 61s.; 2-oz., 59s. 6d.; 3-oz., 58s. 9d.; 4-oz., 58s. 6d. HYDROCHLORIDE, ½-oz., 58s. 3d.; 1-oz., 55s. 9d.; 2-oz., 54s. 3d.; 3-oz., 53s. 6d.; 4-oz., 53s. 3d.

EPHEDRINE.—Makers' rates per oz. are as follows:—ALKALOID: 1 oz., 11s. 9d.; 16 oz., 11s. 6d.; 25 oz., 11s. 3d.; 50 oz., 11s.; 100 oz., 10s. 9d. HYDROCHLORIDE and SULPHATE: 1 oz., 8s. 3d.; 16 oz., 8s.; 25 oz., 7s. 9d.; 50 oz., 7s. 6d.; 100 oz., 7s. 3d. Assorted contracts may be booked for quantities of not less than 100 oz. over six months. Containers: 50 oz. or more, free; 50-oz lots carriage paid.

ETHYLMORPHINE.—Increased rates per oz. from July 1 are as follows:—ALKALOID, ½-oz., 66s. 6d.; 1-oz., 64s.; 2-oz., 62s. 6d.; 3-oz., 61s. 9d.; 4-oz., 61s. 6d. HYDROCHLORIDE, ½-oz., 57s.; 1-oz., 54s. 6d.; 2-oz., 53s.; 3-oz., 52s. 3d.; 4-oz., 52s.

HYPOPHOSPHITES.—Makers' rates per lb. for 7-lb. lots are: AMMONIUM, 9s. 3d.; BARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, 9s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 8s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d. HYPOPHOSPHOROUS ACID.—In winchesters prices are around 6s. 2d. per lb.; in carboys, 5s. 10d. per lb. asked.

IODINE PREPARATIONS.—Steady. Makers' prices per lb. for the home trade are as follows: POTASSIUM IODIDE, B.P.—1 cwt., 11s. 1d. SODIUM IODIDE, B.P.—28 lb., 12s. 1d. IODOFORM, B.P.—28 lb., powder, 15s. 7d.; crystals, 17s. 7d. RESUBLIMED IODINE, B.P.—1 cwt., 12s. 8d. Orders of 28 lb. and upwards may be made up with assorted preparations at schedule rates. Packages are extra. Contracts may be booked for 1 cwt. and over of assorted preparations for delivery as required within three months with rise and fall clauses. Special rebate of 4d. per lb. allowed on quantities of 5 cwt. in one delivery, or on contract for delivery within three months.

MAGNESIUM HYDROXIDE, B.P.C.—Makers' price for 1-cwt. lots is 2s. 11d. per lb.

MAGNESIUM OXIDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets. 28 lb. to 1 cwt., 3s. 5d. (1-lb.); 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.) 3s. 1d. (28-lb.) per lb. Larger quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb. packages, carriage paid.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28-lb. to 1 cwt. 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.) 4s. (28-lb.) per lb. Larger quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, carriage paid.

MANDELIC ACID.—In 28 lb. containers prices are from 12s. 10d. to 14s. 4d. per lb.; in 1-lb. bottles, from 13s. 10d. to 15s. 4d. per lb.

MORPHINE.—Increased rates per oz. from July 1 are as follows:—ALKALOID, ½-oz. 63s. 9d.; 1-oz., 61s. 3d.; 2-oz., 59s. 9d. 3-oz., 59s.; 4-oz., 58s. 9d. HYDROCHLORIDE ½-oz., 53s. 9d.; 1-oz., 51s. 3d.; 2-oz. 49s. 9d.; 3-oz., 49s.; 4-oz., 48s. 9d. Prices of BIMECONATE and TARTRATE as alkaloid and ACETATE, HYDROBROMIDE and SULPHATE as hydrochloride.

SALICYLIC ACID.—Makers' quotation for 1 cwt. is 2s. 2½d. per lb.; scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.). Net one month.

SALOL, B.P.C. — Current quotations for quantities of 28 lb. to 1 cwt. are from 9s. to 9s. 4d. per lb., according to pack. Prices for larger quantities are from 7s. 6d. to 8s. per lb.

SANTONIN.—Makers' rates are: 5 kilos. £44 per kilo; less than 5 kilos, £45; 1 kilo. £46; half-kilo, £47; quarter-kilo, £48 per kilo; carriage paid in U.K. Very scarce.

SILVER COMPOUNDS.—Home-trade prices, in bulk packing, of PROTEIN, B.P., range from 30s. 6d. to 37s. per lb. VITELLIN, 20 per cent., is 55s. to 63s. per lb.; 30 per cent., 72s. 6d. to 82s. 6d. per lb., according to quantity. Additional charges are made for smaller packings.

k-STROPHANTHIN. — Makers' quotations are unchanged at about 25s. per gm.

SODIUM LAURYL SULPHATE.—B.P. material is quoted at about 8s. 6d. to 9s. per lb. for small quantities. EMULSIFYING WAX is available at 6s. to 6s. 9d. per lb.

SULPHOCARBOLATES. — Prices of SODIUM or ZINC salts, crystal and powder, are 5s. per lb. for 1-cwt. lots and 5s. 3d. for 28-lb.

SULPHONAL.—Quoted from 44s. to 53s. per lb., as to quantity.

Crude Drugs

ARECA NUTS. — Spot quotations are in e region of 57s. 6d. per cwt.

ASAFETIDA.—The market is dull. Per-n block on spot is offering at prices m £14 10s. to £24 per cwt., according grade.

BALSAMS.—*Canada* on the spot is offer-g at from 14s. 6d. per lb. for old-crop aterial. Pará *Copaiba*, B.P., 5s. 9d. per , on the spot. San Salvador *Peru*, 4s. 9d. r lb., duty paid. *Tolu* is quoted at 9s. 6d. r lb., spot.

CASCARA SAGRADA.—In the absence of siness, quotations for 1948 peel range om 160s. to 165s. per cwt.; 1947 is from 0s. to 180s. per cwt.; and 1946, 185s. r cwt., all duty paid, ex warehouse.

CASCARILLA. — Quills are quoted at . 5d. and siftings at 1s. 3d. per lb., spot.

CASSIA PODS (*C. fistula*).—East Indian, quoted at from 62s. 6d. to 65s. per cwt., wharf London.

CHERRY BARK.—Thin natural is 1s. 4½d. r lb., duty paid, ex store.

CLOVES.—Zanzibar is quoted at 1s. 2d. r lb., spot; July-August shipment, . 1d., c.i.f. Madagascar is quoted at 11d. r lb., in bond; shipment, 10½d., c.i.f. nang is quoted at 3s. per lb., spot.

GENTIAN.—French natural is quoted at 's. 6d. to 70s. per cwt. on the spot.

GINGER.—African, on spot, is firmer at om 177s. 6d. to 180s. per cwt.; July-ugust shipment, 177s. 6d. value, c.i.f. maican No. 1 is quoted at 195s., spot; o. 2, 190s., spot; No. 3, 185s., value.

GUAIACUM RESIN.—Steady. Quoted from . 4½d. to 2s. 6d. per lb., spot.

GUM ACACIA. — Kordofan cleaned sorts, the spot, is dearer at 64s. per cwt.; ipment, 61s., c.i.f. Bleached No. 1, 125s., ot; to arrive, 115s., c.i.f. Talha, on spot, s. per cwt.; shipment, 38s. 6d. per cwt., i.f.

IPECACUANHA—Nicaraguan, on the spot, quoted at 23s. to 24s. per lb. for f.a.q.; uly-August shipment, 21s. 3d. per lb., c.i.f. olombian 20s. per lb., spot; 19s. per lb., i.f. Matto Grosso, 25s. per lb., c.i.f.

JABORANDI.—Leaves are offered at from s. per cwt.

JALAP.—Vera Cruz, spot, 2s. 6d. to 3s. er lb. as to test. (10 to 15 per cent. resin). razilian (13 per cent.), 1s. 6d. quoted.

KAMALA.—Quoted at 2s. 3d. per lb., spot.

KOLA NUTS. — African quarters, 6d. per .; halves from 2d. to 2½d. Jamaican ashed halves, 3d. per lb.

LIQUORICE. — Anatolian natural root pot, from 38s. to 45s. 6d. per cwt.; yrian, 40s.; Russian, 48s. 6d. to 50s. talian block on spot, 160s. per cwt.; Italian stick, 295s. to 560s. per cwt., as to grade. Turkish block, 205s. to 210s. per cwt.; Turkish stick, 300s.; British block is quoted at 195s. per cwt.

MACE.—West Indian blade is quoted at 6s. per lb. on the spot; prices of pickings are from 2s. to 4s. 6d., as to quality.

MALE FERN.—A parcel on spot (3.02 per cent. filicin) is offering at 65s. per cwt.

MASTIC.—Small tears (No. 2) are offering at from 13s. per lb., spot.

MENTHOL. — Steady. Brazilian on the spot is quoted at 62s. 6d. to 65s. per lb., duty paid, as to quantity. Business has been done in Chinese at 75s. per lb., duty paid.

MERCURY.—Ex warehouse, £18 10s. per flask; shipment, £17 17s. 6d., c.i.f. U.K.

MYRRH.—Aden sorts on the spot are offered at £12 per cwt., siftings are quoted at £6 10s. to £7 per cwt.

NUX VOMICA.—Cochin on spot is quoted from 36s. per cwt.; at origin, quotations for washed and garbled material are at 30s., c.i.f. Mangalore is 34s. per cwt., spot.

OLIBANUM.—Steady. Fair drop is offered at 150s., peas at 190s., fair garblings, 125s., and siftings at 80s. per cwt.

ORANGE PEEL.—Bitter quarters on spot are in few hands; nominal quotations are at 1s. 3d. per lb., duty paid, and 1s. 1d. in bond. Thin-cut Tripoli, 1s. 3d., spot.

ORRIS.—Florentine root on the spot is offered at 115s. per cwt.

PAPAIN.—East African, on the spot, is offered at 13s. per lb.; Ceylon brown, quoted at 10s. per lb., spot.

PIMENTO. — Spot quotations are unchanged at from 1s. 1¾d. per lb.

PODOPHYLLUM. — Indian (*emodi*) is on offer at from 310s. to 315s. per cwt., ex wharf, as to resin content; American (*peltatum*), 275s. per cwt., duty paid.

PSYLLIUM SEED.—French black is quoted at 2s. per lb., duty paid; Indian (ispaghula), 120s. per cwt., spot.

QUASSIA.—Jamaican chips on the spot are quoted at from 30s. to 35s. per cwt.

QUILLAIA.—Natural bark on the spot is offering at 95s. per cwt.; cut bark, 125s. per cwt., crushed, 120s.

QUINCE SEED.—Cape on the spot is offered at from 3s. 6d. per lb.

RHATANY.—Quiet. Spot quotations are unchanged at 9d. per lb.

RHUBARB.—Supplies of Chinese common round are rather low and prices range from 5s. 6d. to 5s. 9d., according to fracture. There have been inquiries for medium qualities but little if any is available.

SANDARAC.—Old-crop material is offered at 5s. 3d. and new-crop at 5s. 6d. per lb., spot London.

SEEDS.—Cyprus ANISE is quoted at 150s. per cwt.; Turkish is 140s. per cwt., duty paid, or 135s. per cwt., in bond; all spot London. Dutch CARAWAY is in poor demand at 107s. 6d. per cwt., duty paid, spot London. Indian CELERY is offered at 1s. per lb., spot London, with no business passing at this figure. CORIANDER.—Morocco remains firm at 37s. 6d. per cwt., in bond, spot London. New crop for July-August shipment is quoted at 34s. per cwt., c.i.f., U.K. ports. Argentine is neglected at 27s. 6d. per cwt., duty paid, spot London or Liverpool. CUMIN.—Cyprus is offered at 147s. 6d. per cwt., spot London; Indian in London is offered at 150s. per cwt.; Morocco, now afloat, is offered at 147s. 6d. per cwt., landed terms, duty paid. DILL.—Indian is firm at 52s. 6d. per cwt., spot London or Liverpool. FENNEL.—Small stock of poor quality Indian available at 70s. per cwt. in London. FENUGREEK.—Market continues firm. Indian, spot London, is 57s. 6d. per cwt.; Morocco is quoted at 57s. per cwt., duty paid in London.

SENEGA. — Spot quotations for old-crop are at 6s. 6d. per lb.; new-crop, July-August shipment, is offered at 5s. 9d., c.i.f.

SENNA.—Tinnevelly leaves, spot, No. 1, from 9½d. to 11d. per lb.; No. 2, 7½d. to 8d.; No. 3, 6d. per lb.; Tinnevelly pods, hand-picked, 9d. to 1s. 5d.; manufacturing, 5d. to 6d. Alexandrian pods hand-picked, spot, from 4s. 9d. to 5s. 9d. per lb., nominal; medium grades are 3s. to 4s.; manufacturing, from 1s. to 1s. 9d. per lb. Alexandrian leaves, f.a.q., 1s. 2d. per lb.

TURMERIC.—Firm. Little available on the spot; July-August shipment is quoted at 106s. per cwt., c.i.f.

VALERIAN.—Belgian natural is offering at 1s. 7d. to 1s. 8d. per lb., spot; cut and cleaned, 1s. 9d. per lb.

WAXES.—Dar-es-Salaam BEES' is offered at 335s. per cwt., spot; July-August shipment, 327s. 6d., c.i.f. Sudanese, in bond, is at 310s.; June-July shipment is offered at 290s., c.i.f. Lindi is quoted at 330s. per cwt., spot; June-July shipment is offered at 322s. 6d., c.i.f. Benguela is at 305s. per cwt., in bond; June-July shipment, 277s. 6d., c.i.f. CANDELILLA.—Spot quotations are dearer at 287s. 6d.; July shipment, 280s. per cwt., c.i.f. CARNAUBA.—Prime yellow is steady at 685s. per cwt., spot; shipment, 610s., c.i.f. Fatty grey, on spot, is 445s. per cwt.; shipment, 450s., c.i.f. Chalky grey is quoted at 440s. per cwt., spot; no shipment offers. MONTAN.—Reibeck is offered at 190s. per cwt., spot; forward, 180s., c.i.f. OURICURI.—99.5 per cent is quoted at 420s., c.i.f. Spot quotations for 7.5 per cent. are at 425s. per cwt.; 2 per cent., shipment, is offered at 410s., c.i.f. SPERMACETI.—Spot quotations are at 2s. 10½d. per lb.

Essential and Expressed Oils

CALAMUS.—Offers of English-distilled are at 150s. per lb.

CITRONELLA. — Ceylon on the spot is now quoted at from 4s. 9d. per lb., July-August, 4s. 2d., c.i.f. No offers of Java oil.

EUCALYPTUS.—Spot quotations for 70-75 per cent. (B.P.) are from 2s. 9d. to 3s. per lb. for drums and up to 3s. 6d. for smalls.

LEMONGRASS. — Spot quotations are around 8s. 6d. per lb; no offers for shipment.

LIME.—West Indian on spot is firm at from 38s. per lb. upwards.

TEASEED. — Spot quotations for refined oil are at 24s. per gall.

TEREBINTH.—Quotations for B.P. oil are from 1s. 6½d. to 1s. 10½d. in winchesters and 1s. 5d. per lb. in carboys.

THYME. — Red oil (40-42 per cent phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 6s. 6d. to 8s. per lb., according to quantity.

VALERIAN.—English-distilled oil is quoted at 75s. per oz.

Synthetics and Isolates

QUOTATIONS are per lb. and vary according to grade, quantity and seller.

ACETOPHENONE.—10s. to 12s. 6d. AMYL ACETATE.—2s. 6d. AMYL BENZOATE.—5s. 3d. to 6s. AMYL BUTYRATE.—5s. 3d. to 6s. 6d. AMYL PHENYLACETATE.—9s. 6d. to 12s. AMYL SALICYLATE.—3s. 3d. to 4s. 6d. AMYL CINNAMIC ALDEHYDE.—15s. to 17s. 6d. ANETHOLE.—10s. to 13s. 6d. ANISIC ALCOHOL.—65s. to 67s. 6d. ANISIC ALDEHYDE.—Ex paracresol, 19s. to 22s. 6d.; perfumery grade, 22s. 6d. to 25s.

BENZALDEHYDE.—3s. 6d. to 4s. 6d. BENZOPHENONE.—10s. 6d. to 12s. 6d. BENZYL ALCOHOL.—Perfumers', 3s. to 4s. BENZYL ACETATE.—3s. to 4s. BENZYL BENZOATE.—Perfumers', 4s. 9d. to 6s. BENZYL CINNAMATE.—From 12s. 6d. BENZYL ISOEUGENOL.—32s. 6d. to 35s. BENZYL PROPIONATE.—5s. to 6s. 6d. BENZYL SALICYLATE.—6s. 6d. to 7s. 6d. BENZYL SUCCINATE.—13s. to 14s. BENZYLIDENE ACETONE.—15s. to 17s. BORNEOL.—9s. to 11s. BORNYL ACETATE.—5s. 6d. to 7s. 6d. BROMSTYROL.—32s. 6d. to 34s. BUTYRIC ACID.—5s. to 6s.

CINNAMIC ALCOHOL.—16s. 6d. to 18s. 6d. CINNAMIC ALDEHYDE.—6s. 6d. to 7s. 6d. CINNAMYL ACETATE.—22s. 6d. to 25s. CINNAMYL BUTYRATE.—27s. 6d. to 30s. CITRAL.—15s. to 27s. 6d. CITRONELLAL.—27s. 6d. to 30s. CITRONELLOL.—Ex Ceylon, 24s. 6d. to 28s.; ex Java, 27s. to 30s. COUMARIN.—17s. 6d. to 19s. 6d.

DIETHYL PHTHALATE.—2s. to 2s. 6d. DIMETHYL BENZYL CARBINOL.—50s. DIMETHYL HYDROQUINONE.—37s. 6d. to 40s. DIPHENYL METHANE.—6s. 6d. to 7s. DIPHENYL OXIDE.—5s. 6d. ETHYL BENZOATE.—4s. 9d. to 6s. ETHYL BUTYRATE.—5s. 3d. to 7s. ETHYL CINNAMATE.—12s. 6d. to 13s. ETHYL ŒNANTHATE.—18s. 6d. to 20s. ETHYL SALICYLATE.—3s. 9d. to 5s. ETHYL VANILLIN.—55s. EUGENOL.—14s. to 16s.

HERB CROP REPORTS

Stafford Allen & Sons, Ltd. — After nother very mild winter the crops got way to a fairly good start in the spring. ELLADONNA.—We again have an excep-ionally good crop, having just completed ur first cutting and we shall have well ver 100 tons of herb of very good qual-ty. CHAMOMILE.—The plantations are ot quite so good as last year, but given avourable conditions for the rest of the ummer, we should then have a fair yield f oil. CARAWAY.—We are growing this or the first time for many years; it has ome on very well and looks like being bumper crop which we shall be cutting his month. CLARY SAGE.—This is one f the finest crops for many years. The lants look exceptionally well and we hope o start harvesting and distilling shortly. ILL.—This is well up to average and here should be a good yield of oil. IGITALIS (*purpurea*).—This crop made a ood start but at present is suffering ather badly from the drought. DIGITALIS (*lanata*). — Although affected by the drought the plants are looking fairly ealthy. ELDER FLOWERS.—No collection his year. HYOSCYAMUS.—We have again ut an exceptionally good crop of second-year plants. First-year plants are coming n well. LAVENDER.—This is looking very well and we have a considerable increase ver last year. PARSLEY.—Owing to the reat over-production last season, com-pared with the demand for rubbed pars-ley, very little is being grown this year as there is a very heavy carry-over stock. The parsley we grow for seed for distilla-tion is looking very well. PEPPERMINT.—We have increased our acreage consider-ably this year and this is coming on well, although grub has been attacking plants.

Potter & Clarke, Ltd.—This year's crops of British medicinal and culinary herbs look like being above average for quality and quantity. Some of the smaller and less robust plants suffered from lack of moisture in the early stages of growth, but many crops are well advanced owing to the open winter. Late crops need rain now and continued dry weather may re-duce yields. The following details refer both to cultivated and wild herbs:—WORMWOOD.—A good crop. GARLIC.—Medium supplies are growing but are not likely to compete with imported material. MARSHMALLOW.—A good crop of leaf. A little root will be dug later but main sup-plies must be imported. BELLADONNA.—Herb and root are doing well and alkaloid content above average may be expected. The plants are not as tall as usual. BRYONY.—Sufficient good quality material available for present-day small demands. HEMLOCK.—A plentiful supply of herb has been obtained which produced a good green extract. Reasonable yields of fruits are expected somewhat earlier than usual. DIGITALIS.—A good crop with every pros-pect of a high glycosidal content. BITTER-SWEET.—A fair crop is anticipated. FEN-NEL.—A small crop of fair quality which should ripen well with continued sunshine. PILEWORT.—A very small crop was gathered early in the year. BURDOCK ROOT.—Normal supplies are expected. CHERRY LAUREL.—Normal supplies of good leaf available. HOPS.—This year's crop looks well so far. HOREHOUND.—A fair crop is expected. SPEARMINT.—A nor-mal crop will soon be ready. PENNYROYAL.—Continues scarce. RUE.—A good crop this year. MARJORAM.—Continues scarce in this country, although our crop looks well. PARSLEY.—A plentiful crop of good quality may be expected. PULSATILLA.—It is difficult to find enough even for present small demands. OAK BARK.—This year's growth is good and thin. SAGE.—A good crop this year. ELDER.—Flowers are plentiful and fairly early this year; adequate supplies of good green leaf are available. BROOM TOPS.—A normal collection of good quality has been made. SCULLCAP.—An excellent small crop has been grown, thanks to the mild winter. COLTSFOOT.—Flowers are in short supply; a fair but small crop of leaves was obtained. Dry weather does not favour this herb. COMFREY.—Normal supplies of leaf and root. DANDELION ROOT.—A normal crop of good quality expected after autumn digging. VALERIAN.—English root is still scarce. RASPBERRY LEAF.—A good collec-tion should be made. MISTLETOE.—A good harvest was made last winter. In addition we anticipate having limited sup-plies of BUCKTHORN BERRIES, CHAMOMILE, COLCHICUM CORM and SEED, CORIANDER, MALE FERN, MATRICARIA, PEPPERMINT, RED POPPY PETALS, THYME, CONVAL-LARIA FLOWERS and ROOT, WILD LET-TUCE and SAVIN; small crops of ANGELICA ROOT and SEED, CALENDULA, CARAWAY, CLARY SAGE, DILL, LAVENDER, LIME FLOWERS and ROSEMARY.

TRADE MARKS

(*From the "Trade Marks Journal," June* 29)

For non-medicated toilet preparations (3).—"LITERA"; by L. Leichner (London), Ltd., London, S.W.2; 655,607. "POLVAROMAS"; by Polak & Schwarz (England), Ltd., Enfield; 667,781. "TUTTNAUER'S COSMETICS" in circle device including a woman's head; by Tuttnauer Cosmetics, Ltd., London, S.W.1; B671,119. "PEPSODENT" on carton device; by Pepsodent, Ltd., Chicago; 671,856. Device of ivory castles; by D. & W. Gibbs, Ltd., London, E.C.4; 675,130. "REPARTEE"; by Lentheric, Ltd., London, W.1; 675,187.

For detergents (3).—"TENNACE" and device of hand holding two playing cards; by H. Hadfield & Son, West Bollington; 671,844.

For all goods (3).—"CAUSEWAY"; by Alexander Finlay, Ltd., Belfast; 674,453. "BONALBA"; by Laporte Chemicals, Ltd., Luton; 674,967.

For medicated ointments for the skin (5).—"EXA-MOL"; by Wigglesworth, Ltd., Westhoughton; 663,857.

For analgesic preparations (5).—"DISPRIN" in circle device including sword; by Reckitt & Colman, Ltd., Hull; 666,889.

For weed- and vermin-killing preparations, insecticides and fungicides (5).—"FOSFERNO"; by Plant Protection, Ltd., Yalding; 668,049. "FIXOPHYTE"; by Ciba, Ltd., Basle; 672,532.

For pharmaceutical preparations (5).—"CURETHYL"; by Laboratoires Pharmacotherapiques de Paris, Paris; B668,060. Device of weather vane; by Whittaker's Drug Stores, Macclesfield; 670,138. "AGGRECOLIN"; by Bayer Products, Ltd., London, W.C.2; 669,739. "ETHINOESTRYL"; by Roussel Laboratories, Ltd., London, W.1; 672,062. "PRO-SOMON"; by Warrick Brothers, Ltd., London, N.1; 673,585. "MEGALON"; by Antigen Laboratories, Ltd., London, W.1; 673,629. "PENIYAR"; by P. Smith (Mountain Ash), Ltd., Mountain Ash; B674,624. "BANOCIDE"; by The Wellcome Foundation, Ltd., London, N.W.1; 675,009. "VIBIF"; by Gedeon Richter (Great Britain), Ltd., London, N.W.5; 675,052. "RIDDOBETES"; by Riddell Products, Ltd., London, W.1; 675,303. "PENISULFA"; by Société Louis Joullié & Co., Paris; 675,366.

For all goods (5).—"DROMITHAL"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough; 668,455. "BUTOMYL"; by The British Drug Houses, Ltd., London, N.1; 670,723.

For halibut-liver oil for use in medicine and pharmacy (5).—"ANGIER'S HALIBUT LIVER OIL CAPSULES" on label device by the Angier Chemical Co., Ltd., London, E.C.1; 671,480.

For disinfectants containing pine extract (5). — "ZAL" on label device including pine tree; by Newton, Chambers & Co. Ltd., Sheffield; 673,303.

For veterinary preparations (5).—"CHAPPIE" in circle device including dog's head; by Chappie, Ltd., Slough; 674,211.

For medicated lozenges, etc. (5).—"ZAGS"; by Ryders, Ltd., London, W.3; 674,423.

For laxative preparations (5).—"WARRLAX"; by Warrick Brothers, Ltd., London, N.1; 674,956.

For antiseptics and disinfectants (5).—"DETTOLEX"; by Reckitt & Colman, Ltd., Hull; 678,817.

For scientific apparatus and instruments (9).—"PERRAM"; by P.A.M., Ltd., Guildford; 669,163. "DELANIUM"; by Powers-Duffryn Carbon Products, Ltd., Hayes; 672,672.

For scientific and photographic apparatus and instruments (9).—"TEG" and device of sun-dial; by A. G. Talbot, E. L. Galati and V. Edwards, trading in co-partnership, Stowmarket; 671,458.

For elastic stockings, orthopædic bodices and belts (10).—"VERTEX" in distinctive lettering; by Etablissements Boudiot, Romilly-sur-Seine; 665,568.

For appliances for the correction of foot defects (10).—"TRACK"; by Major Sybil Smallbone, Oxford; B670,543.

For electric massage machines (10).—"VREDEN"; by Vivian Francis Willmot de Wilton Vredenburgh, Carshalton Beeches; 674,020.

COMING EVENTS

Monday, July 11

SOCIETY OF CHEMICAL INDUSTRY, The University, Oxford Road, Manchester. Sixty-eighth annual meeting (continuing until July 15).

Thursday, July 14

ASSOCIATION OF SCIENTIFIC WORKERS, 15 Hallam Moon Street, London, W.1, at 7 p.m. Meeting of pharmacist members.

LONDON CHEMISTS' GOLFING SOCIETY. Meeting at Fulwell Golf Club (Telephone: Molesey 733).

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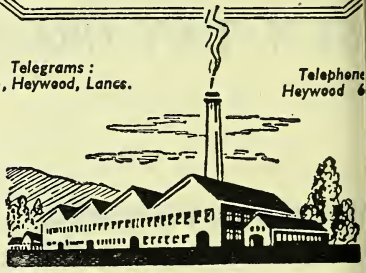

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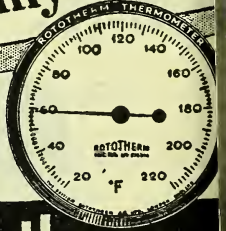

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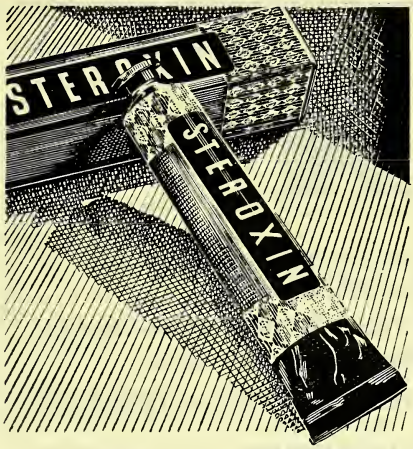

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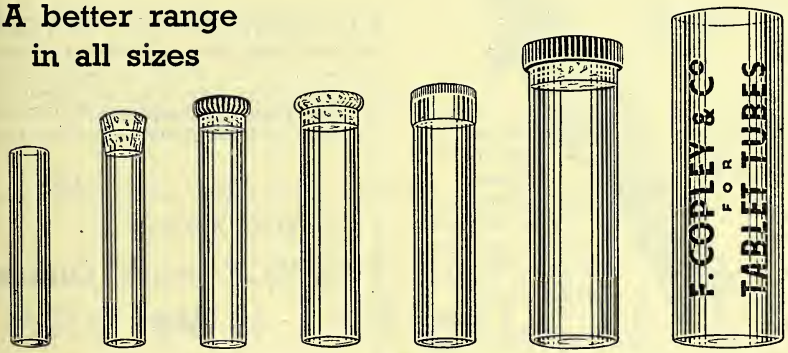

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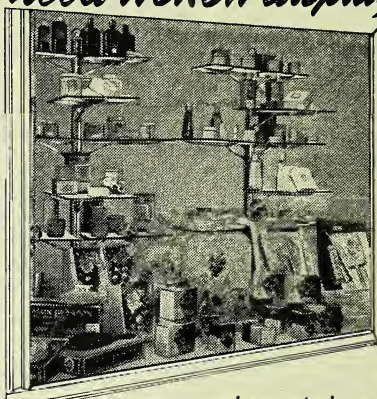

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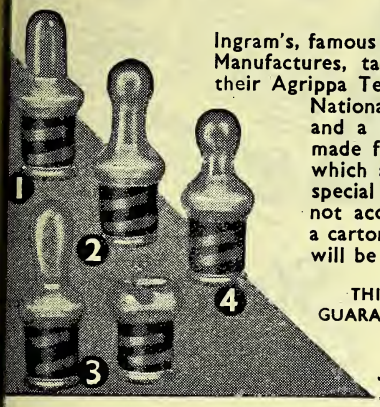

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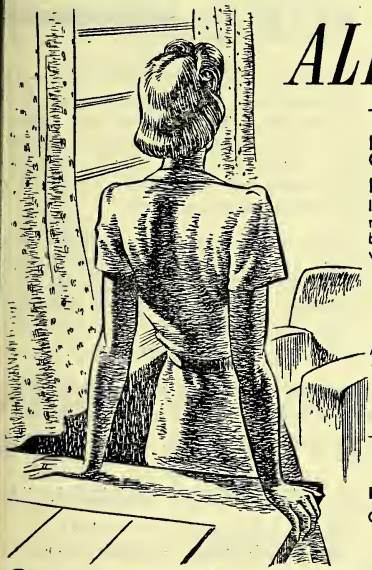

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IF your work entails the precise measuring of liquids, you can have complete confidence in PYREX Brand Graduated Glassware. A simple but highly effective method of calibration ensures absolute accuracy to NPL standards, Class A or B as required.
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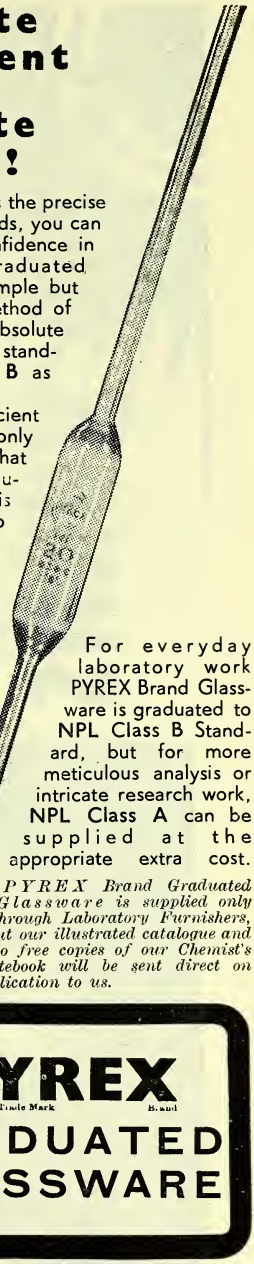

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PYREX Brand Graduated Glassware is supplied only through Laboratory Furnishers, but our illustrated catalogue and two free copies of our Chemist's Notebook will be sent direct on application to us.

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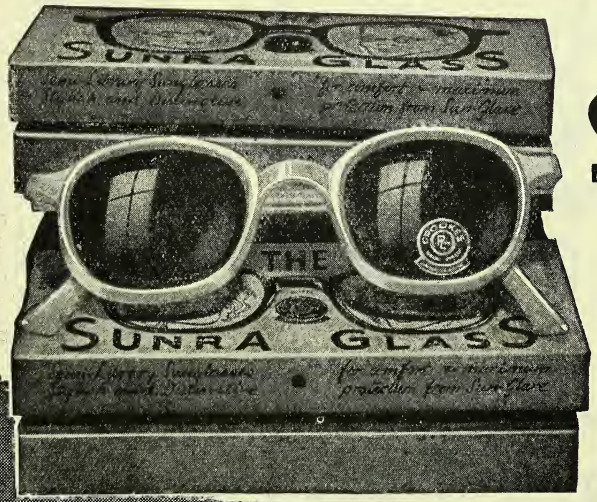

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3s. 6d.

(in two colour box)

Scientifically styled for men and women. Comfortable saddle bridge in two popular fittings.

Available in attractive colours: opaque, transparent and pearl, from your usual wholesaler. There are twelve other models of sunspecs from which to choose which retail from 1s. 0d.

OPTICAL PRODUCTS LTD. 370-372 STATION ROAD, FOREST GATE. LONDON, E.7. — ENGLAND

Telephones: MARyland 1766 & 1550

ST/T/6

The Stergene Booklet

sells more Stergene

Have you received your customers' copies of "How to make the most of your Stergene?" If not contact your nearest Domestos Ltd. Depot. This useful, compact little booklet will be read and kept by Stergene users for it shows practical everyday ways in which Stergene can be useful. Truly Stergene makes *business* of cleansing.

Stergene
SCIENCE IN CLEANSING

High Quality Counter and Window **DISPLAY MATERIAL** *available: send to Advertising Dept. Domestos Limited for Supplies*

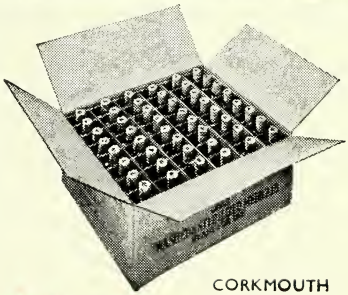
DOMESTOS LTD., COLLEGE WORKS, NEWCASTLE UPON TYNE, 6.

For many pharmaceuticals . .
Baby Powder
Bath Salts
NO-FEET
TALC Powder
FULLERS Earth
MONO
Containers
Salts, crystals, unguents and creams, and many patent foods — all depend upon freshness for consistent sales. Mono waxed paper cartons are hygienic, moisture-proof and preserve the contents in perfect condition. Available with tapered or cylindrical sides and screw or disc lids with printed designs that avoid labelling problems. Enquire for details and samples.
Vita
MASSAGE OINTMENT
Vecon
CONFECTION OF SENNA
EPSOM SALTS
MONO CONTAINERS LTD • CUMBERLAND AVENUE • PARK ROYAL • LONDON • N.W.

The Complete Service

WASHED AND STERILIZED READY FOR USE

FITTED KORKALITE, MOULDED OR ALUMINIUM CAPS



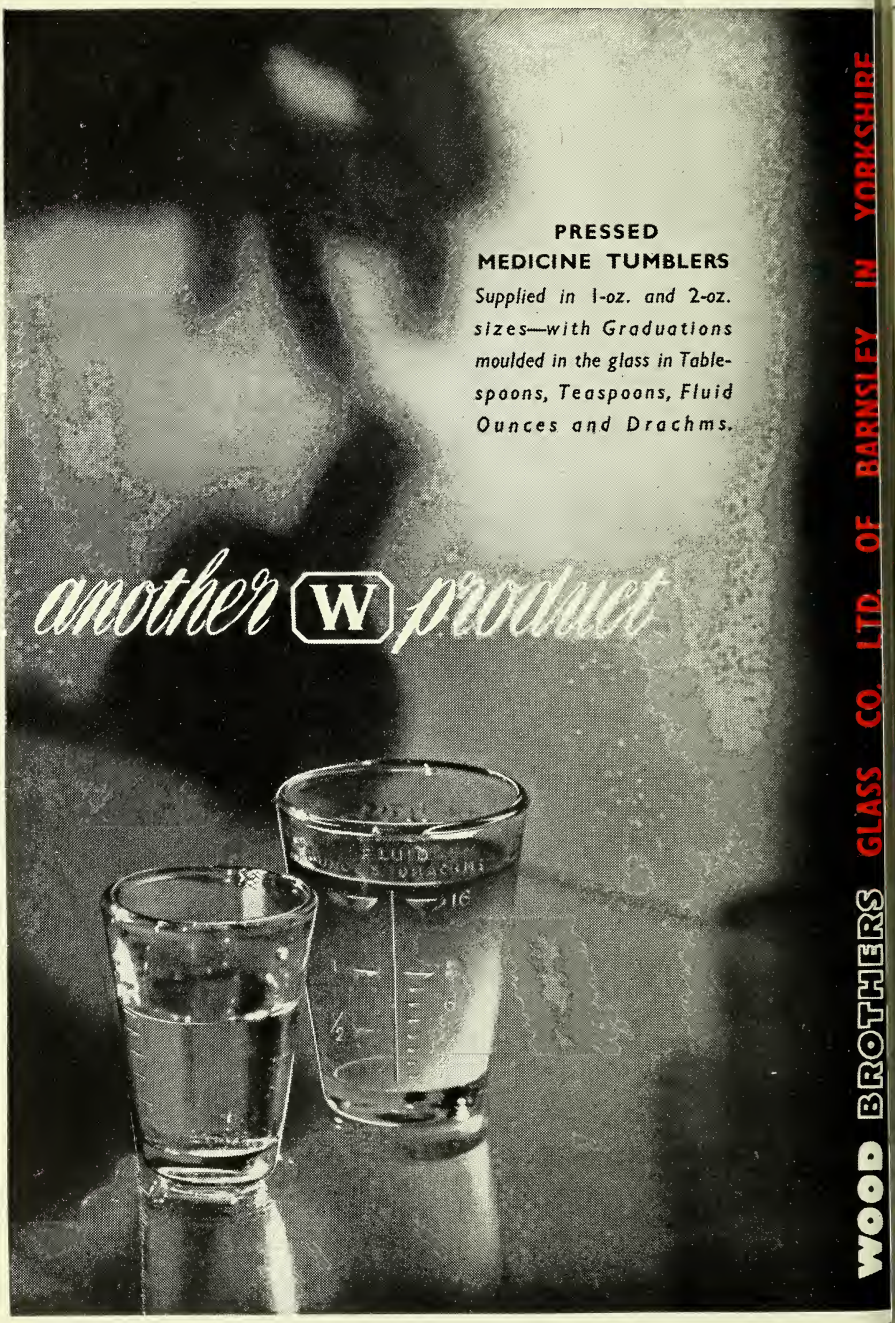
CORKMOUTH

UGB

UNITED GLASS BOTTLE MANUFACTURERS LTD.

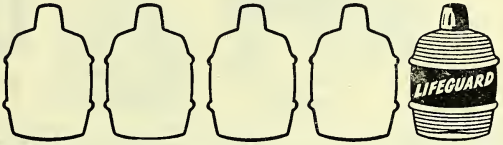
8 LEICESTER STREET, W.C.2

Tel: GERRARD 8611 (15 Lines) *Grams:* UNGLABOMAN, LESQUARE, LONDON


PRESSED
MEDICINE TUMBLERS
Supplied in 1-oz. and 2-oz. sizes—with Graduations moulded in the glass in Tablespoons, Teaspoons, Fluid Ounces and Drachms.
another W product
WOOD BROTHERS GLASS CO. LTD. OF BARNSLEY IN YORKSHIRE

The attractive appearance and efficiency of

and the

advertising have so increased demand that your stocks of Lifeguard may be reduced like this 

before new supplies arrive. Remember Lifeguard is now being advertised in the new large spaces in the

LIFEGUARD

sells on sight

LIFEGUARD PRODUCTS LTD., 21, WATLING STREET LONDON E.C.4

Countless Mothers are saying—

. . . A harmless prepar tion that saves labour no boiling, no scrubbi or tubbing, will deod rise and wash nappi overnight . . . . . th won't harm my Bal or my "wash" . . .

Keep me a Carton eve week!

. . . there are generous trade terms and liberal supplies. Attractive display matter and the backing of powerful National Advertising.

—AND THAT'S WH

NAPPI-WITE

PILES UP PROFITS

Send for supplies to-day to NAPPI-WITE LTD., 17 CONDUIT ST., LONDON, W

ENESS

SANITARY TOWELS
COTTON and SOLUBLE

"Softer than Silk"

MORRISONS & RALPH, LIMITED
Barrhead, Renfrewshire

ESTABLISHED 1793

ATKINSON & BARKER'S
INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of 150 years' standing

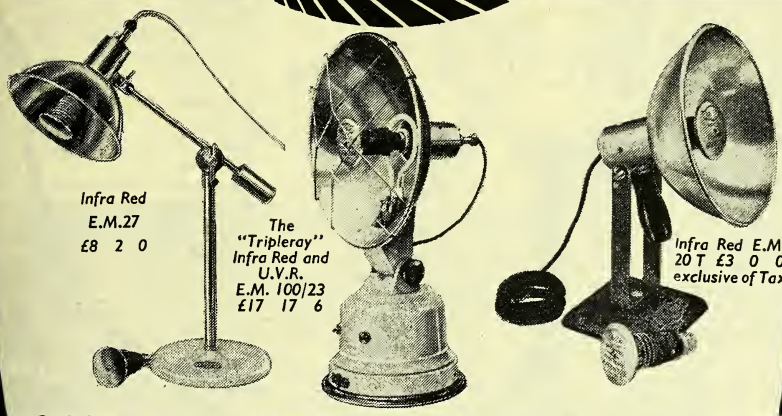
Does not contain any Scheduled Poison

ROBERT BARKER & SON, LT
13 WESLEY ST., C. on M., MANCHEST

.. MANOIDS
. NEVROIDS
URICURE TABLET
OCCASIONAL PILL

THE ACTON PILL & TABLET Co. Ltd.
ASH VALE SURREY
and all Sundries Houses

SOL-TAN



OUR NEW FULLY ILLUSTRATED CATALOGUE GLADLY SENT ON REQUEST

THE LONDON COMMERCIAL ELECTRICAL STORES LTD.
20-23 CURSITOR STREET, E.C.4. • CHANCERY 6488/9

UP GO THE SALES

March price reductions were made in *anticipation* of production economies resulting from easier supplies of raw material. Thanks to increased demands these savings have not only been confirmed but *exceeded*. Therefore we are happy to announce

FURTHER
PRICE REDUCTIONS
AS FROM JULY 1st

OLD PRICE 1/1½
HERMES NOW **1/-**

OLD PRICE 1/4
VELVEX NOW **1/3**

Toilet Rolls of quality

VELVET CREPE PAPER CO. LTD.
Alperton Mills, Woodside End,
Mount Pleasant, Alperton, Middx.

DOWN GO PRICES!

It's FERBER'S for CAPSULES

Makers of

'CALCIVITA'

capsules for the treatment of colds, chilblains and circulatory deficiency.

'VITAMAXA'

capsules—a multi vitamin capsule correcting dietary deficiencies and enabling a properly balanced vitamin intake.

QUOTATION AND FULL DETAILS ON REQUEST

Apiol
Apiol & Ergotine
Blauds
Carbon Tetrachloride
Cascara
Castor Oil
Cinnamon & Quinine
Cod Liver Oil
Copaiba
Creosote
Ergot
Eastons Syrup

Glandular Hormone
Guaiacol
Halibut Liver Oil
Haemoglobin
Hormone
Ichthyol
Malefern
Multi Vitamin
Olive Oil
Quinine
Santal Oil
Vitamins A. B_1 B_2 B_6 C. D. E. K.

In bulk or packed

ROBERT FERBER LTD. CARLTON WORKS · ASYLUM ROAD · S·E·15 Phone: NEW GROSS 0231/2

SAVE TIME...

Seal your packages this **QUICK, EASY WAY**

An inch or two of self-adhesive *Transotape*, a flick of the finger . . . and your package is sealed cleanly, smartly and securely. *Transotape* mends, strengthens and protects. It's pilferproof. You can have it *printed*—and what a good advertisement! You can write on it. In colours to identify poisons and special drugs. Economical . . . you get 2,592 inches on a roll.

PAYS TO SELL

Ask about Transotape *Mini-rols for selling to your customers.* Every home a potential user. In lovely colours, 180 inches to the roll.

transotape puts EXTRA profit on your turnover

Samples and prices gladly

John Gosheron & Co Ltd Gayford Road London W12

(Chemist Service Section)

PW 17/49 Britain's Tapographical Specialists since 1909

Medical Bottles

All Descriptions—

FLATS, VIALS, POISONS, PANELS, JARS and CORKS

HOSPITALS and CHEMISTS *RECEIVE* OUR SPECIAL ATTENTION

QUICK DELIVERY THROUGHOUT SOUTHERN COUNTIES

Write :

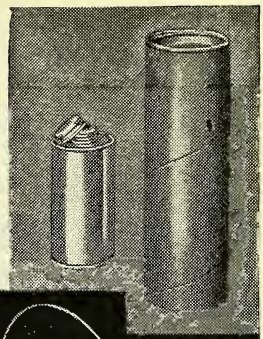
GEO. RICHARDSON MEDICAL BOTTLES LTD

802/4 SEVEN SISTERS ROAD, LONDON, N.15

Phone: Stamford Hill 7447

Thinking of Containers...

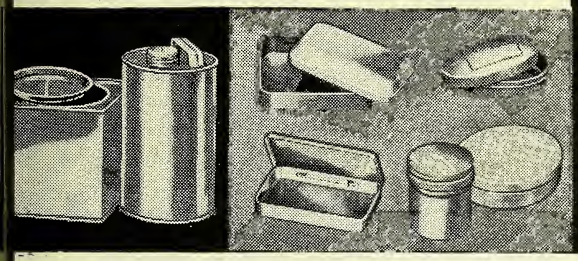
Why not ask us for illustrated leaflets and quotations?

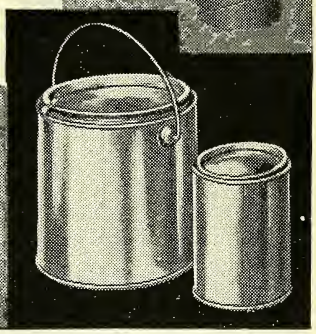


PERCENTA
THE CONTAINER PEOPLE

Phone:
HOP 9516
(6 lines)

centa Ltd., Percenta House, 130/2 Tooley Street, London, S.E.1





Cut out this page for future reference.

DUFAYCOLOR
PROCESSING STATIONS

UFAY PRODUCT

AKE SURE F YOUR STOCKS

e world-famous Dufay-lor film is at present in od supply, so build up a serve NOW to meet the avy summer trade.

The great sale of Dufaycolor indicates that this year the demands for colour processing work will be overwhelming.

Will dealers therefore please note, that we have established Dufaycolor Processing Stations at addresses below, where colour film may be sent for immediate service.

ST. ANNE'S-ON-SEA	Preston Photographics Ltd., 48 Church Road.
SOUTH SHIELDS	Rapide Ltd., 5 Keppel Street.
HULL	C. Tudor, 8 Ella Street.
NOTTINGHAM	Bassett Greenwood Ltd., 48 Carrington Street.
SOUTHAMPTON	W. R. Martin Ltd., 117 East Street.
TEDDINGTON, MIDDX.	Northcote Photo Works, 129 Fulwell Road.
EDINBURGH	F. Caird Inglis & Son, 15 Meuse Lane.
DUBLIN	Lyall Smith, 8 Terenure Rd. East, Rathgar.

UFAY-CHROMEX LTD. 14/16 Cockspur Street, London, S.W.1. Tel. Whitehall 6747

Now available

NEW, IMPROVED ARRID

—the only cream deodorant which also stops perspiration

over 8d. profit for you on every jar you sell! Retail price 2/5 including purchase tax

WOMEN are clamouring in the shops f Arrid—the world's biggest-selling crea deodorant which also stops perspiration. Adve tising is being increased, and with a stror national campaign running, the demand will b something terrific!

Arrid sells on sight, and you make over 8 on every jar. Easy, quick profits, and satisfie customers who'll come in for other goods! You be well advised to stock up without delay.

ORDER ARRID NOW!

Details of special terms for ARRID, Carter's Little Liver Pills, and other products from THOMAS MARNS LTD., 2 CAXTON STREET. LONDON, S.W.1

North—South—East—West

MIDDLETON'S SERVICE

IS THE BEST FOR

North-Eastern Chemists

DRUGS · GALENICALS
PILLS · TABLETS
PROPRIETARIES
· SURGICAL ·
· DRESSINGS ·
· CHEMICALS & ·
· ANALYTICAL ·
· REAGENTS ·
LABORATORY APPARATUS

Send your Enquiries to:—

Speedy Delivery in our own Vans

TEL. 3207-8.

MIDDLETON & CO.
LIMITED
BOUNDARY ROAD, MIDDLESBROUGH

A GRAND COUNTER ATTRACTIO

-and **FREE**

This attractive Di Outer comes free every dozen lo Besorbon medicinal snuff. Give your wholesaler a trial order for this all-year-r preventive remedy for Hay Fever, Colds Catarrh—backed by national advertising, orbon sells on sight! Put it on your cou

BESORBO

Kemsales Ltd., 20 Eastcheap, London,

SECTO

EXTRA POWER.

D.D.T.

The Senior British Insecticide

BEST SELLER FOR 42 YEARS and increasing each year

1945
1946
1947
1948

EXTRA POWER brings in **EXTRA SALES** with **EXTRA PROFITS**

A strong advertising campaign is included in the 1949 SALES PLAN.

IT PAYS TO DISPLAY SECTO

PAL LIMITED · MANUFACTURING CHEMISTS · BLACKBURN

TABLETS & PILLS

PACKED OR BULK

Our up-to-date equipment enables us to quote the lowest possible prices. Special formulæ our speciality. All standard, official and semi-official products promptly supplied.

The Oldest Specialists in the Trade.

ESTABLISHED 1768

CASTLE HUSKISSON LTD.

PHONE: CANONBURY 3466

MANUFACTURING CHEMISTS

SWINTON WORKS, MOON STREET, ISLINGTON, LONDON, N.1

For CHEMISTS ONLY

A NEW PROFITABLE QUICK-SELLING LINE

HOSTES
FRUIT SQUASH
Making a host of frie

RESTRICTE
EXCLUSIVEL
TO CHEMIST

GOOD PROFIT
RETAIL PRICE - per bot.
YOUR RETURN 33/- d
YOUR BUYING PRICE 24 9
YOUR PROFIT - 8 3
(equals 33⅓ on co

ATTRACTIVE VAL
And a quality you can confide recommend. The smart pack m a most attractive display.
Popular flavours. Orange, Ler Lemon and Orange, Pinea Applym (a Lime flavoured a juice cordial).

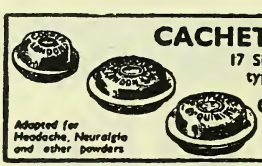
ORDER THROUGH YOUR USUAL WHOLESALE CHEMI

CITRUS Products Co. Ltd. 87 Regent St. London,

M&W
TABLETS LOZENGES
CAPSULES & PILLS

SUPPOSITORIES and Pessaries of the B.P., B.P.C., N.F., packed or in bulk, now available including Compound Bismuth Subgallate.
"Own formulæ" prices on request.

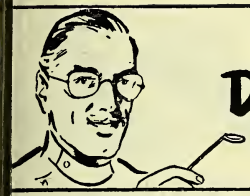
MATTHEWS & WILSON LTD
Established 1894
6-8, COLE ST. LONDON, S.E.1.
Proprietors of "SUDEX" Senna Pods
Telegrams: PILLEOLUM, SEDIST, LONDON. Telephone: HOP 2147-8



CACHETS "FINOT"
17 Sizes to fit various types of machines
COOPER SON & Co., Ld.
120 Gloucester Road,
LONDON, S.W.7
Adapted for Headache, Neuralgia and other powders

TEN MILLION NEWSPAPERS DAILY . .
advertise "ORICOL" Instant Curl Capsules
Order supplies from your wholesaler.
Write for details free local advertising.
GLAMA OF MAYFAIR
17 Dover Street · London · W.1
Telephone: Regent 0356 (3 lines)

DYANESE
FADELESS DYES
2½d. STOCKING (except Black) 20/- gross
4d. CURTAIN & COLD WATER 32/- gross
(including Black Stocking) Order Dyes and Shade Cards from our Agents
Gt. Britain: W. B. Cartwright Ltd., Rawdon, Leeds
N. Ireland: T. McMullan & Co., Ltd., 42 Victoria St., Belfast. Eire: May Roberts (Ireland) Ltd., Grand Canal Quay, Dublin, C.6.



Dentists recommend it

Millions use it

Children love its flavour

Display 'KOLYNOS' and ride up with the profits!

YOUR margin is 34⅓%

FULL CO-OPERATION TERMS

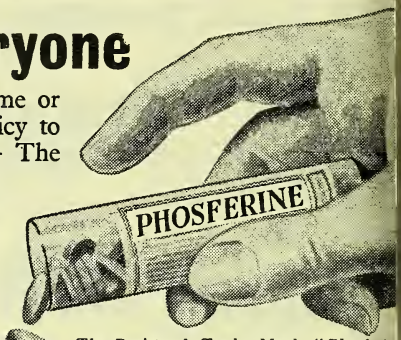
PICTURE-STORY ADVERTISING for 'Kolynos' in all leading national newspapers and magazines means that people are asking for 'Kolynos' as never before. Stock and display 'Kolynos' and see your sales mount!

'Kolynos' can be included with other I.C.C. lines to qualify for Co-operation Discounts of 12% on orders of £10 and over, 10% on orders of £5 and over.

INTERNATIONAL CHEMICAL CO. LTD., CHENIES STREET, LONDON, W.C.1

A TONIC for everyone

Most people need a Tonic at one time or another. For that reason it is sound policy to keep adequate stocks of Phosferine — The Greatest of all Tonics.
Send a post-card for colourful showcards to enable you to make a display to the best advantage.



The Registered Trade Mark "Phosferin is the property of PHOSFERINE (ASHTO & PARSONS) LIMITED.

Let everyone see you sell

IN LIQUID OR TABLET FORM

PHOSFERINE

THE GREATEST OF ALL TONICS

Sole Distributing Agents in the United Kingdom:
BEECHAMS PILLS LIMITED, ST. HELENS, LANCS.

PATTINSON'S MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.
Mag. Oxide Levis Mag. Oxide Pond.
Mag. Trisilicate.
Mag. Hydrate. Mist. Mag. Hydrox.

Supplied through all wholesalers by the sole manufacturers:

The WASHINGTON CHEMICAL CO. LTD.
A MEMBER OF THE TURNER & NEWALL ORGANISATION
WASHINGTON CO. DURHAM

London Office:
Everite House, 59½, Southwark St., S.E.1
Manchester Office:
15, Pollard St. East, Manchester, 10

ALWAYS IN DEMAND

Beaulah's

MALTED MILK

PACKED IN ONE POPULAR SIZE
2/6

J. & J. BEAULAH LTD.
BOSTON, LINCS.

They're busy in the newspapers building up your summer sales!

E holiday months a always big months f Alka-Seltzer, with i extra fast relief for iday headaches, indi- tion, stiff muscles d other aches and pains. *ka-Seltzer sales are going fast!* See that you get your re of this increasing business. up with Alka-Seltzer's new l unique advertising. Send Alka-Seltzer's bright, sales- king display material.

Alka-Seltzer

All set for another big summer

te for trade price list and display ounts to Don. S. Momand Ltd., Albany St., London, N.W.1. Sole tributors for Miles Laboratories l., Bridgend, S. Wales.

OUTSTANDING SUCCESS OF NEW VAPOUR THERAPY FOR RHEUMATIC AILMENTS

The large demand for Polyestol Bandage is undoubtedly due to the fact that doctors as well as sufferers have found it so very effective. The excretion of Salicylic Acid in the urine is approximately 10 times greater than that obtainable by the application of Oil of Wintergreen ointments. Salicylic Acid is traceable in the urine up to 48 hours or longer after the Bandage is removed. When the Bandage, covering 250 square inches, has been applied for 4 hours, 10 mg. per cent Salicylic Acid can be recovered from the blood plasma. Clinical tests and reports from users suggest that the outstanding therapeutical success of the Polyestol Bandage is not only due to the superiority of vapour offered transcutaneously as opposed to other methods of Salicylate therapy, but is greatly assisted by the pronounced analgesic action of the Bandage evidenced by the instantaneous relief which is quite often experienced on first application.

NOW BACKED BY EXTENSIVE NATIONAL AND PROVINCIAL ADVERTISING, WINDOW DISPLAYS, ETC.

Retail selling price is 5/6. Order from your usual wholesalers or write direct to Dept. Z, address below.

POLYESTOL
TRANSPARENT
Pain-Relieving
BANDAGE

Manufacturers and Patentees
POLYESTOL LIMITED
4-5 Warwick Court, High Holborn
London, W.C.1

Scientific

C.V.B

CARR'S VITAMIN B
PREPARED WHEAT GERM

A RICH SOURCE OF VITAMIN

Eaten as a cereal or sprinkled on other cereals, stewed fruit, etc.

ONLY FROM CHEMISTS
3/- per large (14 oz.) packet

TRADE:
27/- doz. *Net Delivered* **Case of 2 doz. 54/-** *Case 3/- returnable*

FROM PRINCIPAL WHOLESALERS OR FROM THE MANUFACTURERS

CARR'S FLOUR MILLS Ltd., CARLIS

Doctors are Prescribin
"D.5 DAMANCY

They are Dellipsoids
D.5 RHEUMALGESI
the new
SUCCINO-SALICYLATE TREATME
***for* RHEUMATIC CONDITIO**
and accompanying pain

These are the actual products used in this Cou in clinical trials: they have been designed to a definite treatment based upon the results experience gained in these trials by respons clinicians.

Descriptive literature sent on request.

D.5 Rheumalgesia are supplied in:
Bottles of 1,000
" " 500
Packs of 100 retail 7/-. Incl. P. Tax.

Telephone: BYRon 1440/1800
Telegrams: Damancy Harrow

DAMANCY & CO. LTD HARRO MIDD
ESTABLISHED 1890

'ZAC-ly right!

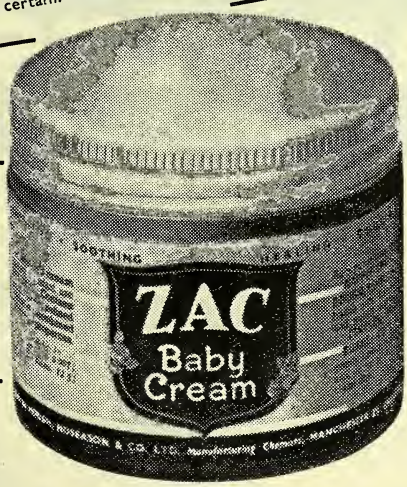
F Baby — for Mother — for You — ZAC Baby Cream and ZAC "ullaby" Baby Powder are exactly right. Right for Baby's d cate skin. Right for Mother who wants the best at moderate p e. And right for YOU because these two lines are first-class "peaters"; show you excellent profit (particularly when ordered w h other H. H. & Co. packed pharmaceticals); and are consistently backed both National and local advertising.

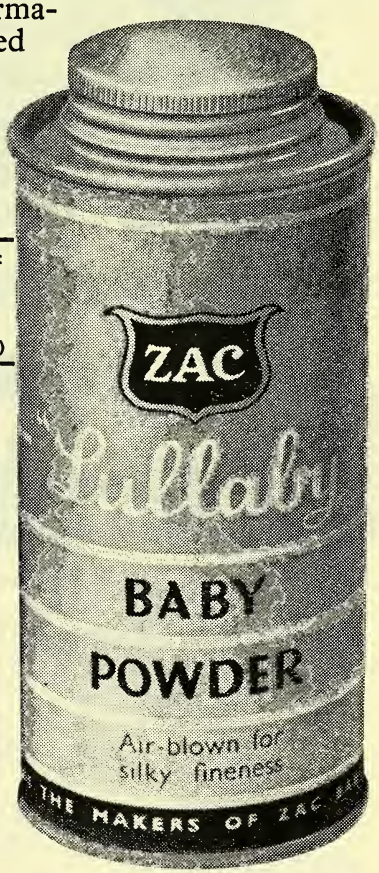
Nationally Advertised

erful advertisements for ZAC Baby ducts are currently appearing in all the ing Women's weekly, fortnightly and nthly magazines. Steadily increasing es are certain. How are your stocks?

Retails at **1/5** (inc. tax)

ails at **/6** . tax) 2/6 ouble antity.





OUGH, HOSEASON & CO. LTD.
LAS LABORATORIES . MANCHESTER, 19

VULFIX

Be prepared for bigger sales!

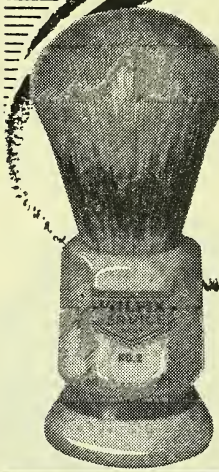
The Progress Shaving Brush Company has great pleasure in announcing an intensified retail sales campaign for Vulfix Service Shaving Brushes:

1) NATIONAL ADVERTISING CAMPAIGN. Over 30,000,000 press advertisements will appear during the next three months, adequately supported by extensive London Underground displays.

2) GUARANTEE. A two-years guarantee is given with every brush. The VULFIX Service Shaving Brush is a quality article and only PURE BRISTLES are used.

3) PRICES TO SUIT EVERY POCKET. We make four popular styles: Service No. 1, Service No. 2, Service No. 3, and Service No. 4. Fixed retail selling prices range from only 3/11 each. Here is a best-seller! Stock up now!

Contact your wholesaler or write direct:



VULFIX "Service" Shaving BRUSHES

PROGRESS SHAVING BRUSH Co., Ltd., Mottram Street, Stockport
49 Leadenhall Street, London, E.C.3.

THE BRUSH WITH THE TWO YEARS GUARANTEE

Fennings

FAMOUS FOR OVER 80 YEARS

SULPHUR POWDERS

The Safe Corrective-

WIDELY ADVERTISED – ORDER NOW – AN EVERYDAY "SELLER"

Retailing at 1/6 AND 3/

ALFRED FENNINGS, HORSHAM, SUSSEX.
(formerly of Cowes I.O.W.)

"That's unseemly talk, Emily!"

VICTORIANISM was not all tight laces and taboos. At a time when most unmarried ladies did nothing more exciting than arrange the wers, Mary Kingsley braved the African swamps in search of new species reptiles. In 1887, when expectant mothers were still obliged to knit in cret, Scott's of Edinburgh produced a new idea in infant feeding—M.O.F. Today, the same progressive spirit governs every aspect of Scott's policy nd finds full expression in Scott's range of infant foods for mixed-feeding time.

Scott's Baby Cereal
The ready-cooked baby cereal fortified with essential vitamins and minerals.

Scott's M.O.F.
In use for sixty years. Contains added iron, calcium, phosphorus, Vitamin D.

Scott's Strained Foods and Baby Soups
A tempting variety of fruit, fish, meat and vegetable purées which help to prepare baby's taste-sense for normal food.

SCOTT'S OF EDINBURGH

A. & R. SCOTT LIMITED, COLINTON, EDINBURGH

MISCELLANEOUS OPPORTUNITIES

Quality *First*
is the watchword of our
D & P SERVICE

The essential attribute of Qua'ity is equally matched by our Speed of Delivery (Messenger or Post).

BROADSTAIRS PHOTO WORKS LTD.
VICTORIA ROAD · RAMSGATE

MOSANS PESSARIES

15/- per doz. boxes
any wholesaler

Developing & Printing
ONE DAY SERVICE . . . . . Usual trade discounts

SHOWCARDS
ORDER PADS, Etc.
SUPPLIED **FREE**

ORMSKIRK
PHOTO - SERVICES
PARK ROAD WORKS
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IF YOU HAVE RATS GIVE THEM A BISCUIT

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YOUNG PHARMACIST requires to purchase a pharmacy, Yorkshire preferred but not essential. Good living accommodation with garden an advantage. Cash waiting for a business returning not less than £1,000 nett per annum. Would entertain partnership with a view to succession later. Box 6/410

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ASSISTANT PHARMACIST

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HILL END HOSPITAL & CLINIC, ST. ALBANS, HERTS

PHARMACIST (locum tenens), male or female, for 9 weeks from the beginning of July. Salary 10 guineas per week. Apply, stating full particulars of experience, to Medical Superintendent, Hill End Hospital & Clinic, St. Albans, Herts.

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A.1. Suburban Essex. Cash drug store offered for conversion to pharmacy. Premises occupy main road position. Turnover for last financial year £6,344. Lock-up shop. Property can be purchased or 21-year lease will be granted. Total minimum price £3,750, subject to stock £1,500. Excellent scope under qualified proprietorship.

A.2. Derby. Chemists and opticians' business for sale. Dispensing 1,500 scripts per month plus £60 per month optics and £85 per week counter. Good gross profit, easily run. Owner will also sell modern detached bungalow with central heating, etc., to purchaser of business. Goodwill £1,500, stock £1,500, fixtures £750 or at valuation. Bungalow £4,000.

A.3. Willesden Green (Near). Attractive pharmacy occupying main road position. Average turnover approaches £7,000 p.a. Good scope. Total price approx. £4,000, including stock and fixtures estimated at over £1,900.

A.4. Midlands. Drug store in large industrial town. Turnover for last financial year £3,709. Scope should exist for appreciable development under qualified proprietorship. Immediate pharmacy opposition not heavy. Price £2,000 for the goodwill and fixtures, plus s.a.v.

A.5. Glasgow. Pharmacy in main shopping area Heavily populated. Capable of immediate expan sion. Purchase price approx. £2,500.

A.6. Leicester (Retirement). Old-establishe pharmacy with living accommodation. Freehol can be purchased or lease may be granted. Turn over for 1947/48 (prior to commencement c N.H.S.) exceeded £5,200. Goodwill and fixture £1,750, plus s.a.v.

A.7. London, E.C. Old-established city business turnover for last financial year £4,000 approx. main road position; good scope; price £2,50 including stock and fixtures (estimated a £1,700).

A.8. London, East. Family suburban busine with leasehold property. Good living accommo dation. Turnover for last financial year, £3,467 Price required for business £2,600, includin stock and fixtures estimated at £1,600, and fo property £2,500. Offers will be considere both as regards the business and the property

A.9. Surrey. Good-class family business with n near opposition. Turnover £3,500 approx. modern lock-up pharmacy, etc.; low renta Total price about £2,400 including stock appro £900.

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Appointments—Continued

CONNAUGHT HOSPITAL,
WALTHAMSTOW, E.17

LOCUM PHARMACIST required from 5th-24th September, 1949. Salary £11 11s. p.w. Resident or non-resident. If resident, a deduction at the rate of £130 p.a.

Applications, stating age, experience, and names of two referees, should be sent to The Secretary, Hospital Management Committee, Forest Group No. 11, Administrative Offices, Langthorne Rd., Leytonstone, E.11.

DARTFORD HOSPITAL MANAGEMENT COMMITTEE

Applications are invited from Registered Pharmacists for the following appointments:—

ASSISTANT PHARMACIST. At the Southern Hospital. Salary £370-£450 a year. Accommodation can be provided for a male or female officer.

ASSISTANT PHARMACIST. At the West Hill Hospital. Salary £370-£450 a year. Accommodation can be provided for a female officer.

J.N.C. conditions of service.

Applications, with full particulars and the names of two persons to whom reference may be made, should be sent to the Secretary, Dartford Hospital Management Committee, Room No. 59, The Bow Arrow Hospital, Dartford, Kent.

BOTLEYS PARK HOSPITAL MANAGEMENT COMMITTEE

Registered ASSISTANT PHARMACIST f Botleys Park Hospital, Chertsey, Surrey. J.N.((Hospital Staffs) salary, viz., £370 inclusiv annual increments up to £450 p.a. Previo experience may determine commencing salar Recently qualified pharmacists eligible. Oppo tunity to take part in preparation of ster products. Whole-time, established, pensionabl subject to medical examination. Applicatio stating age, qualifications, experience, wi copies of not more than three recent tes monials, to Physician Superintendent, Botle Park Hospital, Chertsey, Surrey.

REDHILL GROUP HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the post of CHIE PHARMACIST at Redhill County Hospita Earlswood Common, Redhill, Surrey, fro Registered Pharmacists with not less than thr years' hospital experience after qualificatio Salary according to experience on the grad £485, rising by annual increments of £20 £585 per annum.

The post is subject to the provisions of t National Health Service Superannuation (R gulations), 1947.

Apply to the Secretary, Room 45, Redh Group Hospital Management Committee, Redhill County Hospital, Earlswood Commo Redhill, Surrey, not later than 16th July, 194

WEST HAM GROUP HOSPITAL MANAGEMENT COMMITTEE FOREST GATE HOSPITAL

LONDON, E.7

lications are invited for the appointment ASSISTANT PHARMACIST at Forest Gate pital, London, E.7.

ole time. Hours of duty 39 per week. No day duty. Salary in accordance with .C. (Hospital Staffs), viz., £370, rising by annual increments of £15, and one of to a maximum of £450 per annum. Exence will be taken into account in deterning the commencing salary within the norised scale.

ly qualified pharmacists considered.

lications, stating age, qualifications, exence, and copies of three recent testiials, should be sent to the Medical Superndent, Forest Gate Hospital, London, E.7.

REDHILL GROUP HOSPITAL MANAGEMENT COMMITTEE

CAL PHARMACISTS required for 10 weeks mencing immediately, at Dorking and Red- County Hospitals.

ry £10 10s. per week.

ly to Secretary, Room 45, Redhill Group pital Management Committee, at Redhill nty Hospital, Earlswood Common, Redhill, rey.

NORTH WALES HOSPITAL FOR RVOUS AND MENTAL DISORDERS, DENBIGH

ispensing Assistant required, holding the ificate of the Society of Apothecaries. ry, £270 x 5 yearly increments of £10 to 0, thereafter a £10 increment every 4 s to a maximum of £350. The post is ect to the provisions of the National lth Service (Superannuation) Regulations, . Accommodation available for a single han.

pplications, accompanied by two recent monials to the Medical Superintendent.

S. L. FROST,
Secretary to the Management Committee,
Mental Hospital, Denbigh.

e 28, 1949.

HAYMEADS HOSPITAL, BISHOP'S STORTFORD

pplications are invited for the post of ISTANT PHARMACIST at the above pital. Salary and conditions of service acling to J.N.C. Scale. Work is of an interng nature and in a modern department. nporary accommodation could be arranged lady pharmacist. Applications, stating age, lifications and experience, should be sent the Surgeon-Superintendent of the Hospital.

National Health Service Act, 1946
UDLEY, STOURBRIDGE & DISTRICT HOSPITAL GROUP—
BIRMINGHAM REGION

THE GUEST HOSPITAL, DUDLEY

pplications are invited for the post of ST ASSISTANT PHARMACIST, Nondent. The salary is in accordance with the nt Negotiating Committee, i.e., £415 x -£490 p.a.

pplications, stating age, qualifications and erience, with copies of three recent testiials, to be sent to—H. Raymond Hurst, retary to Management Committee, The est Hospital, Dudley.

HAYMEADS HOSPITAL, BISHOP'S STORTFORD

Locum Pharmacist required at the above Hospital for period August 22 to September 3, inclusive. Salary £10 10s. per week. Temporary accommodation could be arranged for lady pharmacist. Applications, stating age, qualifications and experience, should be sent to the Surgeon-Superintendent of the Hospital.

No. 12 GROUP EAST ANGLIAN REGIONAL HOSPITAL BOARD

CHIEF PHARMACIST

There is a vacancy at the Peterborough and District Memorial Hospital for a CHIEF PHARMACIST (male or female). The post is a non-resident one and there is one assistant. Salary according to the Joint Negotiating Committee (Hospital Staffs) recommendations.

Applications, stating age and experience, with copies of three recent testimonials, should be sent forthwith to Mr. F. A. C. Taylor, House Governor and Secretary, Peterborough.

MANCHESTER VICTORIA MEMORIAL JEWISH HOSPITAL, CHEETHAM, MANCHESTER, 8

(NORTH MANCHESTER HOSPITAL MANAGEMENT COMMITTEE)

ASSISTANT PHARMACIST required. Salary according to J.N.C. scale, i.e., £370-£450 p.a. N.H.S. Superannuation Scheme in force. Applications with full particulars and copies of not more than three testimonials to the Hospital Administrator at the Hospital.

ROMFORD GROUP HOSPITAL MANAGEMENT COMMITTEE

APPOINTMENT OF DEPUTY CHIEF PHARMACIST

Applications are invited for the above non-resident appointment at Oldchurch Hospital, Romford. This modern hospital of 750 beds, with specialist departments, is situated 12 miles from London, and is well served by road and rail transport services.

Applicants should have had not less than three years' hospital experience after qualifying as a Pharmacist. Salary in accordance with J.N.C. scale, viz., £425/£20/£525 a year, plus one additional increment of £15, if specially recommended, to a maximum of £540 a year.

The appointment will be subject (a) to passing a satisfactory medical examination and (b) to the provisions of the National Health Service (Superannuation) Regulations, 1947.

Applications, stating age, qualifications, present employment and previous experience, and giving the names of three referees, should be addressed to the Secretary, Hospital Management Committee, Oldchurch Hospital, Romford, as soon as possible.

KINGSTON GROUP HOSPITAL MANAGEMENT COMMITTEE

ASSISTANT PHARMACIST

Applications are invited for the position of ASSISTANT PHARMACIST at Kingston Hospital, Wolverton Avenue, Kingston-on-Thames.

The vacancy is an excellent opportunity for a newly-qualified pharmacist to obtain experience in a busy department with a staff of five.

Salary in accordance with the recommendations of the J.N.C. (Hospital Staffs).

Applications should be made as soon as possible to the Medical Superintendent.

NORTH MIDDLESEX HOSPITAL, EDMONTON, N.18

ASSISTANT IN DISPENSING. Applications invited. Candidates must hold Apothecaries' Hall Certificate. Salary according to recognised scale. Applications, giving details of training and experience, together with copies of recent testimonials, should be sent to the Secretary, as soon as possible.

KING'S COLLEGE HOSPITAL GROUP, DENMARK HILL, S.E.5

A LOCUM ASSISTANT PHARMACIST required for about three months. Salary £10 10s. per week. Apply to the Pharmacist.

KING'S COLLEGE HOSPITAL GROUP, DENMARK HILL, S.E.5

ASSISTANT PHARMACIST

Applications are invited for the above post. Salary and hours in accordance with J.N.C. scale. The appointment is subject to passing a medical examination. Apply, giving details of age and experience to the Pharmacist at above address.

ST. LUKE'S HOSPITAL, BRADFORD

DISPENSARY ASSISTANT. Applications are invited from women who hold the Certificate of the Society of Apothecaries for junior post in the pharmacy department of St. Luke's Hospital. Salary in accordance with J.N.C. Scale. Applications, stating age, qualifications, experience, along with copies of testimonials, should be sent to H. Trusson, Secretary, Hospital Management Committee, Bradford "A" Group, Royal Infirmary, Bradford.

ST. GEORGE'S HOSPITAL, HYDE PARK CORNER, S.W.1

Require Assistant Pharmacist. J.N.C. rates of pay. Applications with copies of testimonials to Chief Pharmacist.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

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RETAIL (HOME)

ASSISTANT, qualified or unqualified, for dispensing and counter duties, experience of retail pharmacy essential. Apply—J. W. Quibell, Ltd., 885 Finchley Rd., Golders Green, N.W.11.

CHEMIST AND OPTICIAN on C.P.C. list; must be keen refractionist, and willing to help in pharmacy. Stage age, experience and salary required. G. E. Chapman, 166 Church Lane, Smethwick, Birmingham.

CHEMIST, lady or gentleman required immediately, manage small shop, Mill Hill. Good prospects. Write, 105 Millway, Mill Hill. Phone Mil 3002.

CROYDON. Unqualified assistant required for busy shop with brisk counter trade. Applicant must be keen on counter work and be of businesslike disposition. Apply, stating age, experience, references, salary required and usual particulars in first letter to Box 6/441.

EASTBOURNE. Qualified manager required for small branch pharmacy. Apply to:—H. R. Browne (Chemists), Ltd., 44 Cornfield Rd., Eastbourne.

EXCELLENT OPPORTUNITY for young qu optician on C.P.C. list to take control of stantial practice. Premises about to be vacated 21 years' lease; Birmingham-Wolverhampton Box A/9.

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HEPPELLS (1932), LTD., require unqualified tant, also part-time assistant for evening West End. Apply, with full details, to:—S intendent Chemist, Heppells (1932), Ltd. Vauxhall Bridge Rd., London, S.W.1.

LADY, experienced dispensing assistant, know book-keeping, London. Apply "B," Box A/

LADY, experienced assistant for chemist's co counter. Congenial post. Saturday half-day. don. Apply "C," Box A/245.

LEADING SURGICAL HOUSE in Northern I required a competent assistant who must be oughly conversant with either surgical instru or orthopædic appliances. A knowledge of desirable. Apply, in confidence, giving fullest ticulars and salary expected, to Box 6/424.

LONDON CO-OPERATIVE CHEMISTS, LTD. cause of rapid development, have several vac for experienced pharmacists as branch man The positions vacant have definite promotion pects. Full particulars as to experience, and required, in first letter please, to Superinte Chemist, Grange Rd., Leyton, E.10.

LONDON. City pharmacy. Required a qualified assistant. Permanent position. Goo business. Early closing Saturday. No Sunday Write, stating age, experience, and salary req B. Hooper & Co., 6 Railway Place, Fenc St., E.C.3.

MANAGER, qualified male or female, for and photographic department in store; 41 week; permanency; attractive work; congenial ditions. Applications, stating age, experience, salary required to Manager, Jarrold & Sons, London St., Norwich.

MANCHESTER DISTRICT. Pendleton Co-oper Society, pharmacist branch manager req (either sex). Permanency. Superannuation sch Modern pharmacy. Unfurnished accommod available. Please state age, experience and s required. Apply, the Secretary, 3 Mill S Salford, 6.

NOTTINGHAM CO-OPERATIVE CHEMISTS, require two or three pharmacists as manager new branches shortly to be opened. The posi are permanent, under congenial conditions superannuated. The salary is attractive, with yearly bonus, and generous and accumulative mission on dispensing. Send details of age, perience, approximate salary expected and a ability for interview to Superintendent Che Ronald St., Nottingham.

OPENING FOR YOUNG qualified pharmacis West End London with good remuneration superannuation and bonus schemes available. portunity for the right man to train surgical partment and become branch manager. No Su duties, convenient hours and roster. Apply, details, etc., Box 6/467.

PHARMACIST required as assistant buyer for n ern drug department of Surrey store. Trai given in management and buying to suitable ap cant. Excellent opportunity for pharmacist initiative desiring scope for advancement. Li accommodation available. Apply Staff Contro Bentalls of Kingston.

Situations Open—Continued

RMACIST, preferably young, required as assist- nanager for busy dispensing business. Know- of T.S.A. work required. Small flat avail- Apply giving full particulars and salary red to J. R. Butler, M.P.S., 195 London , Reading.

RMACIST MANAGER required for south-west on. Living accommodation if required. Good and prospects. Apply "A," Box A/243.

LIFIED, elderly, lady preferred, for country ess. No Sunday duty. Half-day weekly. Box .

LIFIED ASSISTANT, counter and dispensing, le of taking charge. Adequate help. Middle- business. Interview if possible. Chas. J. r & Son, 292 Cheriton Rd., Folkestone.

LIFIED CHEMIST required. Permanency. Lady nt. State salary, etc., Sidney H. Blunt, Ltd., ordesley Green, Birmingham, 9.

LIFIED MANAGER required for West-End acy. Permanent position allowing full scope initiative. Good salary and commissions. on scheme available. Please apply:—Super- dent Chemist, Heppells (1932), Ltd., 70 all Bridge Rd., London, S.W.1.

LIFIED MANAGER required for branch phar- Salary, £10 per week, and commission on nal Health dispensing (minimum £1). Super- tion scheme. Apply, stating age and experi- to Kidderminster Co-operative Chemists, Worcester St., Kidderminster.

NDID OPPORTUNITY for ambitious pharma- A combined wholesaler and retailer requires able qualified business man to manage main House in residential area shortly vacant. salary and directorship offered if successful ant proves his capabilities. Box 6/474.

LONDON. Qualified assistant required for sing and counter. No Sundays or rota duties. details and salary required, to Box 6/463.

PHARMACIST required for small pharmacy, Essex. Easy, congenial position with pros- Good salary and bonus and rota payments. particulars to Box 6/443.

HARTLEPOOL. Pharmacist, male or female, ed to manage modern, newly fitted branch acy. New modern house available, attached op. Adequate supporting staff provided. nnuation scheme. Salary £501 16s. per an- plus rota fees plus bonus scheme. Excellent cts for capable person. Apply, giving parti- or experience to Superintendent Pharmacist, pools Co-operative Chemists, Ltd., West pool.

SOR. Qualified assistant required for busy sing business. Apply Wood's Pharmacy, Ltd., gh St., Windsor, Berks.

G LADY ASSISTANT for dispensing and r; age 20 to 30; for working and middle-class ss, London, S.E.1. Salary £8 weekly. Can f necessary for suitable applicant. Write in ence to Box 6/386.

LOCUMS WANTED

M, QUALIFIED, long or short periods, Lon- Central. Fourteen guineas. Apply "D," Box .

ON CO-OPERATIVE CHEMISTS, LTD., have ies for locums, both men and women phar- s, to the end of October. Full particulars as ant dates, experience, salary and commission ed, in first letter please, to Superintendent st, Grange Road, Leyton, E.10.

LOCUM WANTED. Locum, qualified, for a month from July 25. Lady or gentleman, or permanency as manager. No living accommodation. Sharpes Chemists, Ltd., 39 High St., Thornton Heath, near Croydon.

LONDON, E.2, near City. Assistant, qualified or unqualified, for six or eight weeks during holidays. Give full particulars of experience, age, names of references and salary expected. Apply (letter only), Pharmacist, 35 Sydner Rd., Stoke Newington, London, N.16.

QUALIFIED LOCUM, dispensing only. Good wages. August 15th to 27th. Phone Arch 1442. 61 Stroud Green Rd., N.4.

QUALIFIED LOCUM required from Saturday, July 16th to 29th inclusive. Also Monday, August 8th to August 20th inclusive. Permanent branch manager also required for average type pharmacy. Good supporting staffs. Apply, stating salary required, to Secretary, Ashton-Under-Lyne Co-operative Society, Ltd., "Arcadia," Stamford St., Ashton-Under-Lyne.

RETAIL (OVERSEAS)

DAVID RUXTON, LTD., Umtali, S. Rhodesia, require a young, single assistant pharmacist. Apply for full details to Box 6/455.

WHOLESALE

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Box A/271

ALKA-SELTZER, Dentesive and Clinitest. Representatives required for these lines on commission basis for the following counties: South Midlands, South-western, Eastern, Southern. Write, giving full details of experience, with names of products now carried, to Don S. Momand, Ltd., 57 Albany St., London, N.W.1.

APPLICATIONS INVITED from person, male or female, to take charge of a medical mailing department in a firm situated in Hertfordshire, very near London. Pharmaceutical qualifications not essential but applicant must be able to write suitable propaganda leaflets, letters, etc., and advise on layout. Apply, with particulars of age, experience and salary required, to Box A/274.

BY PERMISSION of the Ministry of Labour and National Service. Laboratory foreman required by London manufacturing chemists for the manufacture of pharmaceutical galenicals. Five-day week. Reply with full details of experience, to Box 6/460.

BY PERMISSION of the Ministry of Labour and National Service. Manufacturing chemists, London, have a vacancy for a competent man experienced in all branches of tablet production. Details to Box 6/461.

H. R. NAPP, LTD., 3 & 4 Clements Inn, London, W.C.2, have vacancy young (preferably qualified) representative to call on doctors, hospitals, chemists in Kent, Sussex, Hampshire. Apply by letter to Manager, giving full details, which will be treated confidentially.

LOVELUCK EDWARDS & CO., have vacancies for established representatives able to carry their quick selling summer lines of well-known leg tan, Meltan, etc. Details of territory, etc., to 432-440 Garratt Lane, S.W.18.

Situations Open—Continued

MANUFACTURING CHEMISTS in Manchester district require qualified chemist for their manufacturing laboratory. Previous experience in the wholesale trade though an advantage not essential. Position would be admirable for a recently qualified man who wishes to adopt the manufacturing side of his profession. Pension scheme in operation. Applications, stating age, experience, qualifications and salary required, to Box A/237.

PARKE, DAVIS & CO. have interesting posts in their organisation which offer permanency and prospects of promotion to young pharmacists who have ambition for (a) the manufacturing side, (b) the Export Sales side (especially if the applicant has a liking for languages) and (c) representation of the Company, after suitable training, in East Anglia and elsewhere in England; India and South-East Asia. Write, in the first instance, for application forms to the General Sales Manager, Parke, Davis & Co., Staines Rd., Hounslow, Middlx.

PHARMACIST required for supervision and control in manufacturing departments of large well-known firm in Manchester area, producing medicinal and toilet preparations. Write, giving full details qualifications, experience, age, salary, etc., to Box A/272.

PILL AND TABLET COATER experienced in all grades of work is required by manufacturing chemists, London area, working 5-day week. Excellent opportunity for suitable applicant, write giving age, experience and salary required. Box A/270.

REPRESENTATIVE for Midlands area, on commission basis, required by old-established manufacturing chemists of tablets, pills, capsules, lozenges and suppositories, to call on wholesale and manufacturing chemists, hospitals and local government departments. Substantial commission available. Must have well-established connections. Apply Matthews & Wilson, Ltd., 6 & 8 Cole St., London. S.E.1.

REPRESENTATIVE required by manufacturers of nationally advertised cosmetics to call on chemists, stores, hairdressers, co-ops, etc., on expenses-and-commission basis. Good connection and car essential. Write giving full particulars, age, experience, etc., and state area covered or desired. Box A/249.

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REPRESENTATIVES REQUIRED

by world-famous cosmetic House for the following four territories :

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(c) Sussex. Kent. Hampshire. Dorset.
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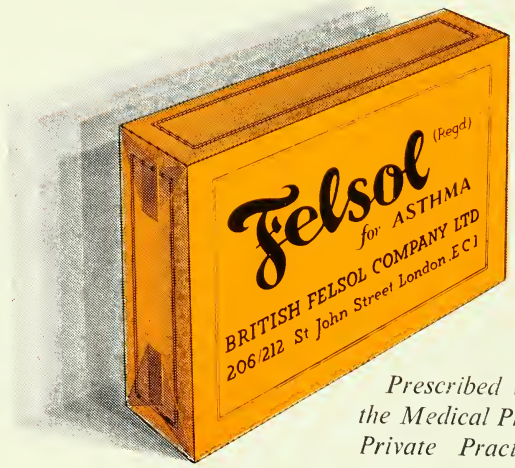

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